

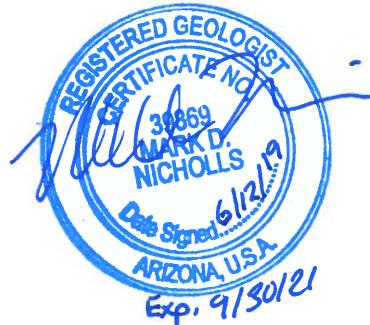
**TECHNICAL MEMORANDUM**

12 June 2019  
File No. 132473-005

**TO:** Florence Copper Inc.  
Dan Johnson, Vice President, General Manager

**FROM:** Haley & Aldrich, Inc.  
Owen Miles, Hydrogeologist  
Jacob Chu, Ph.D., P.E.  
Mark Nicholls, R.G.

**SUBJECT:** Florence Copper Mine Model Update



A groundwater flow model was developed and documented as part of a hydrogeologic study for application for a temporary individual Aquifer Protection Permit by a predecessor to Florence Copper Inc. (Curis Resources), in 2012. The extent of the groundwater flow model is shown in Figure 1. This groundwater flow model is referred to as the original model below. The original model was set up to run from 1984 through 2010 for calibration. The original model was reviewed by the U.S. Environmental Protection Agency (USEPA) and used to assess the hypothetical, potential discharge impact resulting from the pilot operation of in-situ copper recovery (ISCR) at the Production Test Facility.

To support the permit application for the site-wide ISCR operation, the original model was updated, as described below:

- The model was extended to run from 1984 through 2018;
- Additional regional pumping well and water level data up to 2018 were incorporated into the model; and
- The extended model was calibrated against additional observed water level data through adjusting the general head and recharge boundary conditions between 2011 and 2018 to reflect variation of water exchange across the model domain.

No changes were made to the model grid, hydraulic property data, or the location of any boundary conditions. More details are provided below regarding the new data incorporated into the extended model for calibration.

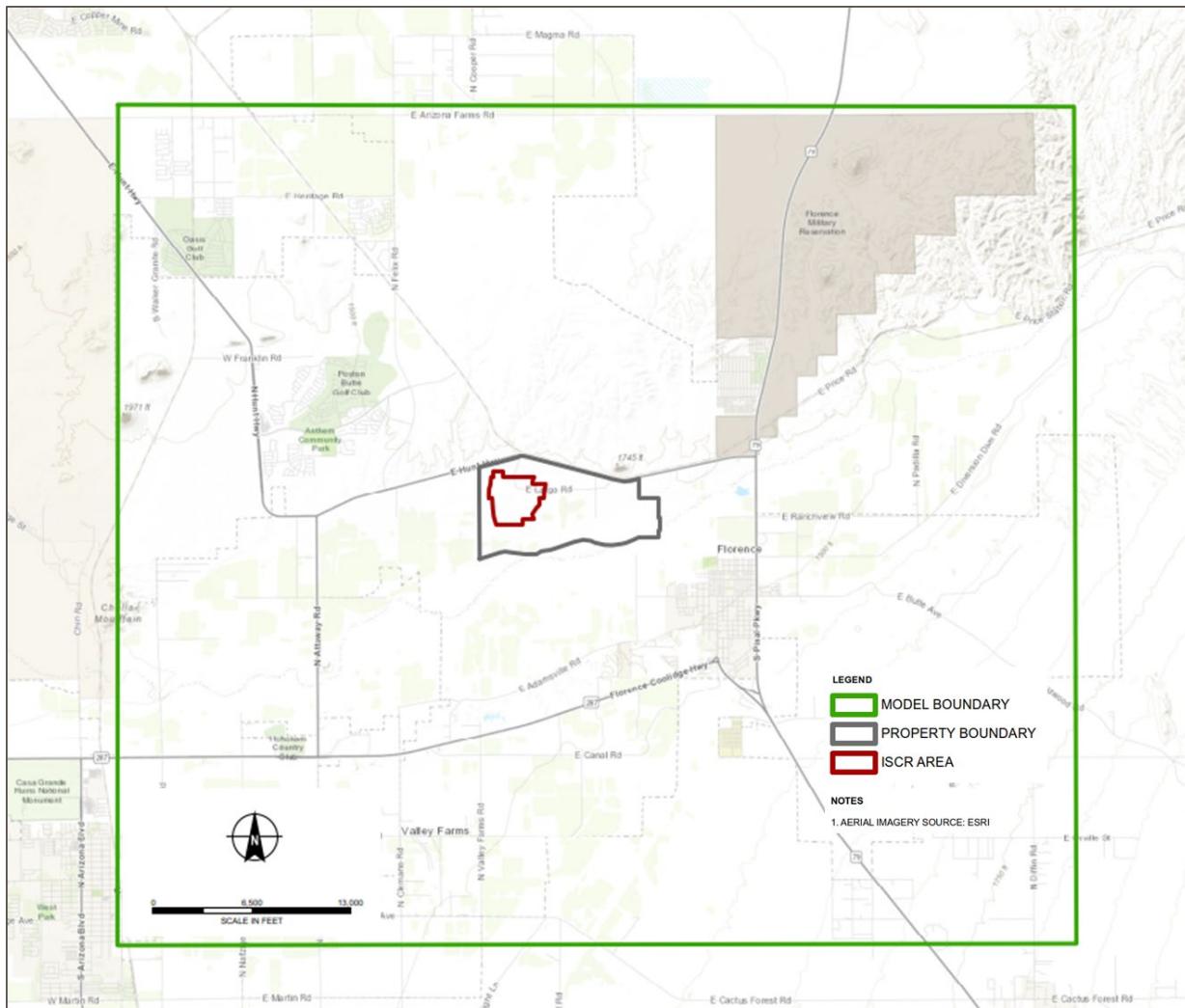


Figure 1: Model Domain, Property Boundary, and In-Situ Copper Recovery Area

## MODEL UPDATE THROUGH ADDITIONAL CALIBRATION

### Pumping Well Data for Additional Model Calibration

- The pumping well data was requested from Arizona Department of Water Resources (ADWR) via public information request. Pumping information was requested for all wells in the following townships for years 2010 to 2018 (T4S, R8E; T4S, R9E; T4S, R10E; T5S, R8E; T5S, R9E; and T5S, R10E).
- At the time of the request, 2018 well data were not available, so they were assumed to be the same rate as the 2017 data.
- For the San Carlos Irrigation Project wells, pumping was continued at 2010 levels since no new pumping data was available.

- The pumping rates used in the extended model between 2011 and 2018 are provided in Appendix A.

### Water Level Data for Calibration Target Setup

- Water level data were collected quarterly onsite, and less frequently in the ADWR data.
- Offsite (ADWR) well data were downloaded from the ADWR website for the Eloy Basin, and data after 2011 were assessed.
- Selected ADWR and onsite water level data were used to set up targets for additional model calibration. The selected target locations cover various parts of the model domain and model layers.
- The seasonal water level fluctuations due to transient pumping of the production wells could not be simulated by the model because the resolution of the pumping volume data is yearly. The upper bound values of the water level trend at each target location were used for calibration to reduce the bias toward temporal pumping influence on regional groundwater level trends.
- The additional target locations and the calibration target data are provided in Appendix B.

### Recharge

- The annual precipitation data reported near the site between 2000 and 2018 were evaluated. The results show a similar magnitude of precipitation between 2000 and 2010 (approximately 7.7 – 7.9 inches per year) and between 2011 and 2018 (approximately 8.1 – 8.2 inches per year).
- Recharge was a fitting parameter used in the calibration.
- The initial recharge conditions for 2011 through 2018 were set the same as the conditions for 2010 in the original model.
- Recharge for each stress period between 2011 and 2018 was adjusted by multiplying by a constant for that stress period. The spatial distribution and relative magnitude of recharge remained the same from the 2010 timestep.

### General Head Boundaries

- The head values for the general head boundary conditions were a calibration parameter.
- The conductance values remained unchanged.
- There were three reaches of the general head boundary cells in the original model. Heads were assumed to be constant across a reach, which were the northern, southern, and western boundaries of the model. The head values for individual boundary reaches for each stress period were adjusted during the calibration process.

### Hydraulic Properties

All hydraulic properties used in the original model were kept the same in the extended model.

### Calibration Process

The model calibration utilized both statistical measures of model residuals and direct comparisons of simulated and observed water levels to assess whether groundwater hydraulics and observed water level trends can be adequately simulated by the extended model. Both the manual trial-and-error calibration and software-assisted calibration were used to improve the calibration results.

### Calibration Results

Satisfactory calibration results were able to be attained by varying recharge and general head boundary cells at the magnitude consistent to the historical variation. The final calibration statistics are shown in Table 1 below. The calibration scatter plot is shown in Figure 2 below. The statistics of the extended model is nearly identical to those of the original model. The scatter plot shows that the extended model can reproduce the variation of the water level trends between 2011 and 2018. The results also indicate that the hydraulic properties used in the original model is adequately calibrated because no change in hydraulic properties are needed to achieve satisfactory calibration.

**Table 1: Comparison of Calibration Statistics**

Model Version	Model Calibration Period	Residual Mean (RM) (ft)	Absolute Residual Mean (ARM) (ft)	Residual Standard Deviation (RSD) (ft)	Simulated Range of Head Values (Range) (ft)	RM/Range (%)	ARM/Range (10%)	RSD/Range (%)
Original Model	1984 to 2010	-2.8	12.1	15.61	398	0.71%	3.0%	3.9%
Extended Model	1984 to 2018	-2.8	12.0	15.47	398	0.7%	3.0%	3.9%

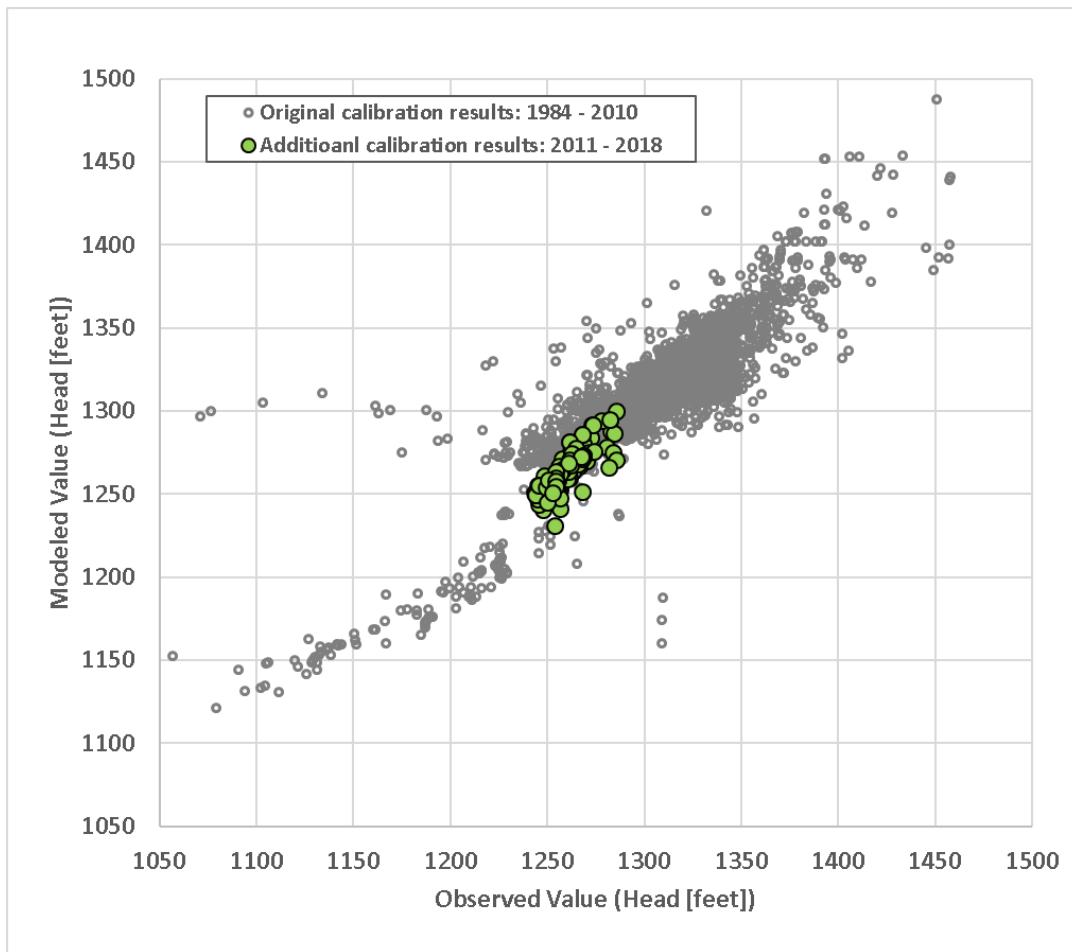


Figure 2: Calibration Scatter Plot

#### PREDICTIVE TRANSPORT MODEL SETUP

The calibrated extended model was used to perform predictive transport evaluation. The purpose of the predictive transport evaluation is to delineate the potential discharge impacts resulting from the site-wide ISCR operation. The transport model setup for the predictive evaluation is summarized below.

##### Hydraulic Properties

The hydraulic property values are the same as those used in the calibrated extended model except that the hydraulic conductivity values for the faults in the model was increased to 6 feet per day, which is at least 10 times higher than the representative hydraulic conductivity values used for the oxide bedrock layers (Model Layers 7-10) for the extended model.

##### Porosity

The following porosity values are used: A porosity value of 0.12 was assigned to Model Layers 1 through 5 (basin fill); a porosity value of 0.08 was assigned to Model Layers 6 through 10 (oxide layers); and a porosity value of 0.2 was assigned to the faults.

### Recharge

The recharge pattern for the transport model was set to be the same as the pattern for the last stress period in the original model except that the magnitude of the recharge was reduced by 16 percent, which is the average recharge decrease between 2011 and 2018 in the calibrated extended model in comparison to the 2010 recharge in the original model.

### General Head Boundaries

The head value for each general head boundary cell in the transport model were set to be the average value of the head values for the last stress period (2018) in the calibrated extended model.

### Pumping Wells

The pumping conditions used to simulate Year 2018 in the calibrated extended model were used in the transport model except that the pumping wells within the ISCR area were removed.

### Initial Heads

The head distribution of the last time step of the calibrated extended model was used as the initial head distribution for the transport simulation.

### Initial Concentrations

A conservative solute in Model Layers 7 through 10 at a concentration of 750 milligrams per liter (mg/L) in the ISCR area (Figure 1) was set as initial conditions.

### Simulation Time

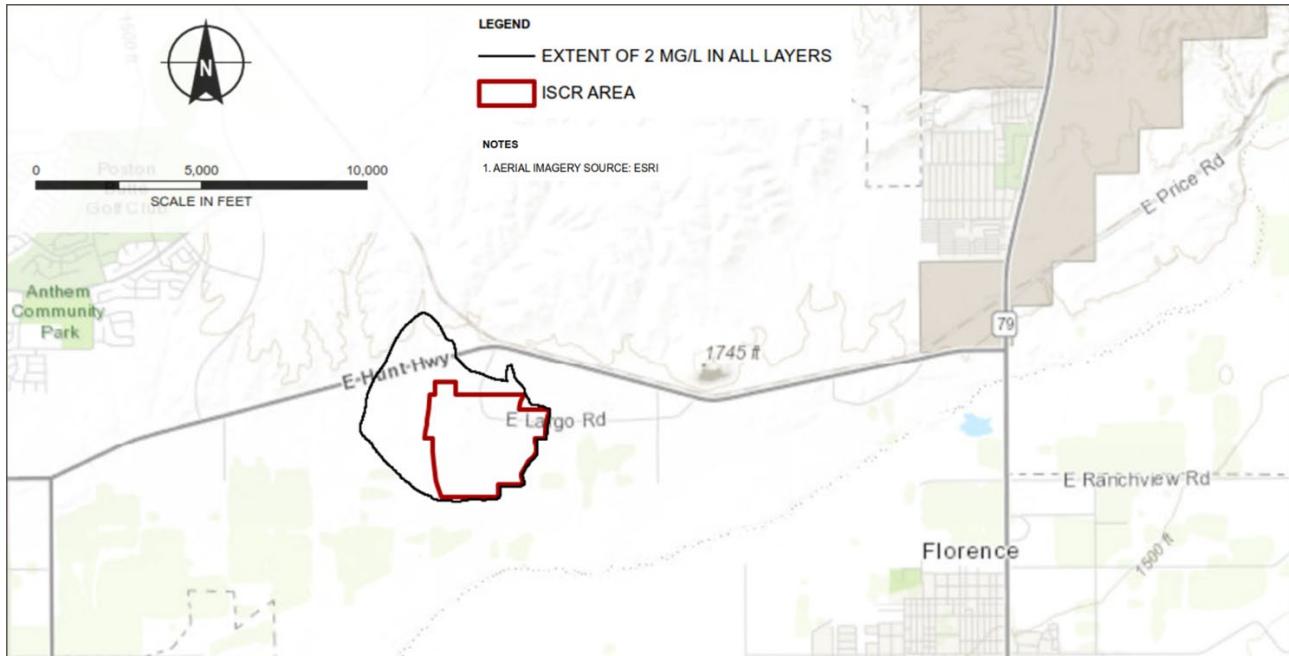
The simulation period for the transport model is 30 years.

### Other Transport Parameters and Solver Settings

All other transport parameters and solver settings were kept the same as those used for previous discharge impact assessments using the original model.

## PREDICTIVE TRANSPORT MODELING RESULTS

The simulated extent of migration after the 30-year transport modeling is shown in Figure 3. The extent of migration is defined by the maximum extent of the 2 mg/L concentration contours for all the layers. The faults, which were assigned a hydraulic conductivity ten times higher than the surrounding bedrock, appear to slightly enhance migration northward. The maximum distance of the 2 mg/L contour away from the ISCR area boundary is approximately 2,000 feet. The model results indicate that relatively low concentrations of sulfate migrate vertically into Model Layers 6, 5, and 4 (in that order) by dispersion. Very low concentrations of sulfate migrate into Model Layer 4, the upper portion of the Lower Basin Fill Unit (LBFU), but stayed generally within the ISCR area during the 30-year simulation. The greatest horizontal transport occurred in Model Layer 5, the lowest portion of the LBFU. Most of the solute mass remains in the oxide zone within the ISCR footprint after 30-year transport.



**Figure 3: The Simulated Discharge Impact Area 30 Years After Closure**

Attachments:

Appendix A — 2011 — 2018 Targets

Appendix B — 2011 — 2018 Pumping Well Rates

\\\haleyaldrich.com\share\phx\_common\Projects\Florence Copper\132473 Florence Groundwater Permitting\Working\101704 Significant Amendment\Attachment 14\Exhibit 14-10 HA Model Memo\2019-0612\_Technical\_Memo\_Update\_F.docx

## **APPENDIX A**

### **2011 — 2018 Targets**

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Target	Layer	Sublayer	Row	Column	Weight	Group	Type	Time
P49-O	647611.87	744202.71	1275.8	8	1	293	147	1	1	Head	9545
P49-O	647611.87	744202.71	1273.8	8	1	293	147	1	1	Head	9887
P49-O	647611.87	744202.71	1268.3	8	1	293	147	1	1	Head	10188
P49-O	647611.87	744202.71	1268.6	8	1	293	147	1	1	Head	10200
P49-O	647611.87	744202.71	1268.0	8	1	293	147	1	1	Head	10230
P49-O	647611.87	744202.71	1267.6	8	1	293	147	1	1	Head	10239
P49-O	647611.87	744202.71	1267.3	8	1	293	147	1	1	Head	10270
P49-O	647611.87	744202.71	1260.9	8	1	293	147	1	1	Head	10629
P49-O	647611.87	744202.71	1254.3	8	1	293	147	1	1	Head	10992
P49-O	647611.87	744202.71	1254.1	8	1	293	147	1	1	Head	11355
P49-O	647611.87	744202.71	1250.2	8	1	293	147	1	1	Head	11635
P49-O	647611.87	744202.71	1254.4	8	1	293	147	1	1	Head	11736
P49-O	647611.87	744202.71	1254.3	8	1	293	147	1	1	Head	12087
P49-O	647611.87	744202.71	1252.5	8	1	293	147	1	1	Head	12471
P49-O	647611.87	744202.71	1249.1	8	1	293	147	1	1	Head	12790
M22-O	646962.22	746467.66	1265.7	7	1	200	102	1	1	Head	10188
M22-O	646962.22	746467.66	1265.7	7	1	200	102	1	1	Head	10193
M22-O	646962.22	746467.66	1260.8	7	1	200	102	1	1	Head	10631
M22-O	646962.22	746467.66	1255.6	7	1	200	102	1	1	Head	10991
M22-O	646962.22	746467.66	1251.5	7	1	200	102	1	1	Head	11355
M22-O	646962.22	746467.66	1245.4	7	1	200	102	1	1	Head	11533
M22-O	646962.22	746467.66	1254.2	7	1	200	102	1	1	Head	11734
M22-O	646962.22	746467.66	1253.1	7	1	200	102	1	1	Head	12084
M22-O	646962.22	746467.66	1256.3	7	1	200	102	1	1	Head	12483
M22-O	646962.22	746467.66	1249.7	7	1	200	102	1	1	Head	12714
M22-O	646962.22	746467.66	1249.8	7	1	200	102	1	1	Head	12799
M4-O	651635.22	743717.36	1282.3	7	1	303	430	1	1	Head	9888
M4-O	651635.22	743717.36	1273.2	7	1	303	430	1	1	Head	10188
M4-O	651635.22	743717.36	1268.1	7	1	303	430	1	1	Head	10631
M4-O	651635.22	743717.36	1261.3	7	1	303	430	1	1	Head	10991
M4-O	651635.22	743717.36	1264.6	7	1	303	430	1	1	Head	11362
M4-O	651635.22	743717.36	1262.6	7	1	303	430	1	1	Head	11741

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Target	Layer	Sublayer	Row	Column	Weight	Group	Type	Time
M4-O	651635.22	743717.36	1261.6	7	1	303	430	1	1	Head	12091
M4-O	651635.22	743717.36	1258.0	7	1	303	430	1	1	Head	12482
M4-O	651635.22	743717.36	1255.7	7	1	303	430	1	1	Head	12790
M20-O	648921.15	747382.65	1271.4	7	1	136	252	1	1	Head	9887
M20-O	648921.15	747382.65	1267.7	7	1	136	252	1	1	Head	10241
M20-O	648921.15	747382.65	1261.9	7	1	136	252	1	1	Head	10631
M20-O	648921.15	747382.65	1256.4	7	1	136	252	1	1	Head	10988
M20-O	648921.15	747382.65	1252.7	7	1	136	252	1	1	Head	11635
M20-O	648921.15	747382.65	1249.2	7	1	136	252	1	1	Head	12000
M17-GL	647017.02	744976.8	1267.3	5	1	278	103	1	1	Head	9889
M17-GL	647017.02	744976.8	1267.7	5	1	278	103	1	1	Head	10188
M17-GL	647017.02	744976.8	1263.3	5	1	278	103	1	1	Head	10631
M17-GL	647017.02	744976.8	1254.7	5	1	278	103	1	1	Head	10995
M17-GL	647017.02	744976.8	1257.7	5	1	278	103	1	1	Head	11362
M17-GL	647017.02	744976.8	1256.6	5	1	278	103	1	1	Head	11740
M17-GL	647017.02	744976.8	1256.3	5	1	278	103	1	1	Head	12090
M17-GL	647017.02	744976.8	1254.2	5	1	278	103	1	1	Head	12470
M17-GL	647017.02	744976.8	1251.5	5	1	278	103	1	1	Head	12797
M28-LBF	647751.71	747746.97	1270.0	5	1	129	159	1	1	Head	9887
M28-LBF	647751.71	747746.97	1266.5	5	1	129	159	1	1	Head	10241
M28-LBF	647751.71	747746.97	1260.0	5	1	129	159	1	1	Head	10631
M28-LBF	647751.71	747746.97	1255.9	5	1	129	159	1	1	Head	10988
M28-LBF	647751.71	747746.97	1254.4	5	1	129	159	1	1	Head	11356
M28-LBF	647751.71	747746.97	1255.3	5	1	129	159	1	1	Head	11734
M28-LBF	647751.71	747746.97	1252.5	5	1	129	159	1	1	Head	12087
M28-LBF	647751.71	747746.97	1250.0	5	1	129	159	1	1	Head	12454
M28-LBF	647751.71	747746.97	1249.6	5	1	129	159	1	1	Head	12792
M31-LBF	649976.91	747333.4	1272.1	4	1	137	337	1	1	Head	9887
M31-LBF	649976.91	747333.4	1268.4	4	1	137	337	1	1	Head	10241
M31-LBF	649976.91	747333.4	1261.7	4	1	137	337	1	1	Head	10642
M31-LBF	649976.91	747333.4	1257.8	4	1	137	337	1	1	Head	10988
M31-LBF	649976.91	747333.4	1255.9	4	1	137	337	1	1	Head	11362

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Target	Layer	Sublayer	Row	Column	Weight	Group	Type	Time
M31-LBF	649976.91	747333.4	1257.1	4	1	137	337	1	1	Head	11735
M31-LBF	649976.91	747333.4	1253.8	4	1	137	337	1	1	Head	12084
M31-LBF	649976.91	747333.4	1251.9	4	1	137	337	1	1	Head	12463
M31-LBF	649976.91	747333.4	1251.3	4	1	137	337	1	1	Head	12791
M3-GL	651636.79	743685.56	1282.0	4	1	304	430	1	1	Head	9888
M3-GL	651636.79	743685.56	1273.0	4	1	304	430	1	1	Head	10194
M3-GL	651636.79	743685.56	1268.0	4	1	304	430	1	1	Head	10631
M3-GL	651636.79	743685.56	1261.2	4	1	304	430	1	1	Head	10991
M3-GL	651636.79	743685.56	1264.7	4	1	304	430	1	1	Head	11362
M3-GL	651636.79	743685.56	1262.5	4	1	304	430	1	1	Head	11741
M3-GL	651636.79	743685.56	1261.4	4	1	304	430	1	1	Head	12091
M3-GL	651636.79	743685.56	1257.7	4	1	304	430	1	1	Head	12482
M3-GL	651636.79	743685.56	1255.4	4	1	304	430	1	1	Head	12790
330257111271901	641132.3	745826	1256.5	5	1	251	37	1	3	Head	12763
330457111271901	641113.3	757852.1	1253.7	5	1	28	37	1	3	Head	12763
325848111251101	652401.4	720875.3	1266.4	5	1	384	446	1	3	Head	10930
325848111251101	652401.4	720875.3	1263.7	5	1	384	446	1	3	Head	11273
325848111251101	652401.4	720875.3	1263.0	5	1	384	446	1	3	Head	11636
325848111251101	652401.4	720875.3	1261.6	5	1	384	446	1	3	Head	12000
325848111251101	652401.4	720875.3	1267.7	5	1	384	446	1	3	Head	12366
325940111241001	657064	725516.3	1280.9	5	1	374	483	1	3	Head	9818
325940111241001	657064	725516.3	1282.7	5	1	374	483	1	3	Head	10173
325940111241001	657064	725516.3	1284.5	5	1	374	483	1	3	Head	10544
325940111241001	657064	725516.3	1280.3	5	1	374	483	1	3	Head	10929
325940111241001	657064	725516.3	1283.9	5	1	374	483	1	3	Head	11273
325940111241001	657064	725516.3	1285.2	5	1	374	483	1	3	Head	11636
325940111241001	657064	725516.3	1281.6	5	1	374	483	1	3	Head	12000
325940111241001	657064	725516.3	1248.3	5	1	374	483	1	3	Head	12365
325940111241001	657064	725516.3	1244.8	5	1	374	483	1	3	Head	12736
325944111275001	638415.7	726400.7	1283.0	5	1	373	32	1	3	Head	9818
325944111275001	638415.7	726400.7	1285.6	5	1	373	32	1	3	Head	10173
325944111275001	638415.7	726400.7	1277.9	5	1	373	32	1	3	Head	10544

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Target	Layer	Sublayer	Row	Column	Weight	Group	Type	Time
325944111275001	638415.7	726400.7	1264.5	5	1	373	32	1	3	Head	10930
325944111275001	638415.7	726400.7	1262.9	5	1	373	32	1	3	Head	11273
325944111275001	638415.7	726400.7	1261.5	5	1	373	32	1	3	Head	11636
325944111275001	638415.7	726400.7	1260.3	5	1	373	32	1	3	Head	12000
325944111275001	638415.7	726400.7	1253.9	5	1	373	32	1	3	Head	12365
325944111275001	638415.7	726400.7	1247.5	5	1	373	32	1	3	Head	12735
330515111245601	653220.5	759767.2	1249.4	5	1	24	462	1	3	Head	9837
330515111245601	653220.5	759767.2	1249.0	5	1	24	462	1	3	Head	10252
330515111245601	653220.5	759767.2	1248.3	5	1	24	462	1	3	Head	10546
330515111245601	653220.5	759767.2	1247.8	5	1	24	462	1	3	Head	10945
330515111245601	653220.5	759767.2	1245.6	5	1	24	462	1	3	Head	11278
330515111245601	653220.5	759767.2	1244.8	5	1	24	462	1	3	Head	11639
330515111245601	653220.5	759767.2	1244.0	5	1	24	462	1	3	Head	12001
330515111245601	653220.5	759767.2	1243.5	5	1	24	462	1	3	Head	12357
330515111245601	653220.5	759767.2	1243.9	5	1	24	462	1	3	Head	12724

**APPENDIX B**

**2011 — 2018 Pumping Well Rates**

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_1	680116.25	749620.72	-17901	5	4	91	529	29	29
SCIP_1	680116.25	749620.72	-17901	5	4	91	529	30	30
SCIP_1	680116.25	749620.72	-17901	5	4	91	529	31	31
SCIP_1	680116.25	749620.72	-17901	5	4	91	529	32	32
SCIP_1	680116.25	749620.72	-17901	5	4	91	529	33	33
SCIP_1	680116.25	749620.72	-17901	5	4	91	529	34	34
SCIP_1	680116.25	749620.72	-17901	5	4	91	529	35	35
SCIP_1	680116.25	749620.72	-17901	5	4	91	529	36	36
SCIP_2	677529.93	746957.19	-63490	5	4	161	524	29	29
SCIP_2	677529.93	746957.19	-63490	5	4	161	524	30	30
SCIP_2	677529.93	746957.19	-63490	5	4	161	524	31	31
SCIP_2	677529.93	746957.19	-63490	5	4	161	524	32	32
SCIP_2	677529.93	746957.19	-63490	5	4	161	524	33	33
SCIP_2	677529.93	746957.19	-63490	5	4	161	524	34	34
SCIP_2	677529.93	746957.19	-63490	5	4	161	524	35	35
SCIP_2	677529.93	746957.19	-63490	5	4	161	524	36	36
SCIP_10	650572.02	746861.8	0	2	2	169	384	29	29
SCIP_10	650572.02	746861.8	0	2	2	169	384	30	30
SCIP_10	650572.02	746861.8	0	2	2	169	384	31	31
SCIP_10	650572.02	746861.8	0	2	2	169	384	32	32
SCIP_10	650572.02	746861.8	0	2	2	169	384	33	33
SCIP_10	650572.02	746861.8	0	2	2	169	384	34	34
SCIP_10	650572.02	746861.8	0	2	2	169	384	35	35
SCIP_10	650572.02	746861.8	0	2	2	169	384	36	36
SCIP_11	641392.77	745512.58	-22556	5	4	267	38	29	29
SCIP_11	641392.77	745512.58	-22556	5	4	267	38	30	30
SCIP_11	641392.77	745512.58	-22556	5	4	267	38	31	31
SCIP_11	641392.77	745512.58	-22556	5	4	267	38	32	32
SCIP_11	641392.77	745512.58	-22556	5	4	267	38	33	33
SCIP_11	641392.77	745512.58	-22556	5	4	267	38	34	34

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_11	641392.77	745512.58	-22556	5	4	267	38	35	35
SCIP_11	641392.77	745512.58	-22556	5	4	267	38	36	36
SCIP_9	647291.82	745527.32	-80000	2	2	267	122	29	29
SCIP_9	647291.82	745527.32	-80000	2	2	267	122	30	30
SCIP_9	647291.82	745527.32	-100000	2	2	267	122	31	31
SCIP_9	647291.82	745527.32	-100000	2	2	267	122	32	32
SCIP_9	647291.82	745527.32	-100000	2	2	267	122	33	33
SCIP_9	647291.82	745527.32	-100000	2	2	267	122	34	34
SCIP_9	647291.82	745527.32	-100000	2	2	267	122	35	35
SCIP_9	647291.82	745527.32	-100000	2	2	267	122	36	36
SCIP_10b	648603.29	745530.27	-80000	2	2	267	227	29	29
SCIP_10b	648603.29	745530.27	-80000	2	2	267	227	30	30
SCIP_10b	648603.29	745530.27	-100000	2	2	267	227	31	31
SCIP_10b	648603.29	745530.27	-100000	2	2	267	227	32	32
SCIP_10b	648603.29	745530.27	-100000	2	2	267	227	33	33
SCIP_10b	648603.29	745530.27	-100000	2	2	267	227	34	34
SCIP_10b	648603.29	745530.27	-100000	2	2	267	227	35	35
SCIP_10b	648603.29	745530.27	-100000	2	2	267	227	36	36
SCIP_8	657172.36	745527.88	0	5	4	267	483	29	29
SCIP_8	657172.36	745527.88	0	5	4	267	483	30	30
SCIP_8	657172.36	745527.88	0	5	4	267	483	31	31
SCIP_8	657172.36	745527.88	0	5	4	267	483	32	32
SCIP_8	657172.36	745527.88	0	5	4	267	483	33	33
SCIP_8	657172.36	745527.88	0	5	4	267	483	34	34
SCIP_8	657172.36	745527.88	0	5	4	267	483	35	35
SCIP_8	657172.36	745527.88	0	5	4	267	483	36	36
SCIP_3b	674940.18	744315.59	-64922	5	4	291	519	29	29
SCIP_3b	674940.18	744315.59	-64922	5	4	291	519	30	30
SCIP_3b	674940.18	744315.59	-64922	5	4	291	519	31	31
SCIP_3b	674940.18	744315.59	-64922	5	4	291	519	32	32

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_3b	674940.18	744315.59	-64922	5	4	291	519	33	33
SCIP_3b	674940.18	744315.59	-64922	5	4	291	519	34	34
SCIP_3b	674940.18	744315.59	-64922	5	4	291	519	35	35
SCIP_3b	674940.18	744315.59	-64922	5	4	291	519	36	36
SCIP_5	670324.55	744278.24	-43321	5	4	292	510	29	29
SCIP_5	670324.55	744278.24	-43321	5	4	292	510	30	30
SCIP_5	670324.55	744278.24	-43321	5	4	292	510	31	31
SCIP_5	670324.55	744278.24	-43321	5	4	292	510	32	32
SCIP_5	670324.55	744278.24	-43321	5	4	292	510	33	33
SCIP_5	670324.55	744278.24	-43321	5	4	292	510	34	34
SCIP_5	670324.55	744278.24	-43321	5	4	292	510	35	35
SCIP_5	670324.55	744278.24	-43321	5	4	292	510	36	36
SCIP_3	674611.95	743986.57	0	2	2	298	518	29	29
SCIP_3	674611.95	743986.57	0	2	2	298	518	30	30
SCIP_3	674611.95	743986.57	0	2	2	298	518	31	31
SCIP_3	674611.95	743986.57	0	2	2	298	518	32	32
SCIP_3	674611.95	743986.57	0	2	2	298	518	33	33
SCIP_3	674611.95	743986.57	0	2	2	298	518	34	34
SCIP_3	674611.95	743986.57	0	2	2	298	518	35	35
SCIP_3	674611.95	743986.57	0	2	2	298	518	36	36
SCIP_4b	670024.43	741965.49	-76499	2	2	333	509	29	29
SCIP_4b	670024.43	741965.49	-76499	2	2	333	509	30	30
SCIP_4b	670024.43	741965.49	-76499	2	2	333	509	31	31
SCIP_4b	670024.43	741965.49	-76499	2	2	333	509	32	32
SCIP_4b	670024.43	741965.49	-76499	2	2	333	509	33	33
SCIP_4b	670024.43	741965.49	-76499	2	2	333	509	34	34
SCIP_4b	670024.43	741965.49	-76499	2	2	333	509	35	35
SCIP_4b	670024.43	741965.49	-76499	2	2	333	509	36	36
SCIP_4	672334.11	741662.8	0	2	2	336	514	29	29
SCIP_4	672334.11	741662.8	0	2	2	336	514	30	30

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_4	672334.11	741662.8	0	2	2	336	514	31	31
SCIP_4	672334.11	741662.8	0	2	2	336	514	32	32
SCIP_4	672334.11	741662.8	0	2	2	336	514	33	33
SCIP_4	672334.11	741662.8	0	2	2	336	514	34	34
SCIP_4	672334.11	741662.8	0	2	2	336	514	35	35
SCIP_4	672334.11	741662.8	0	2	2	336	514	36	36
SCIP_13	630300.43	738870.43	-477	5	4	348	16	29	29
SCIP_13	630300.43	738870.43	-477	5	4	348	16	30	30
SCIP_13	630300.43	738870.43	-477	5	4	348	16	31	31
SCIP_13	630300.43	738870.43	-477	5	4	348	16	32	32
SCIP_13	630300.43	738870.43	-477	5	4	348	16	33	33
SCIP_13	630300.43	738870.43	-477	5	4	348	16	34	34
SCIP_13	630300.43	738870.43	-477	5	4	348	16	35	35
SCIP_13	630300.43	738870.43	-477	5	4	348	16	36	36
SCIP_110	662524.58	733014.79	0	2	2	359	494	29	29
SCIP_110	662524.58	733014.79	0	2	2	359	494	30	30
SCIP_110	662524.58	733014.79	0	2	2	359	494	31	31
SCIP_110	662524.58	733014.79	0	2	2	359	494	32	32
SCIP_110	662524.58	733014.79	0	2	2	359	494	33	33
SCIP_110	662524.58	733014.79	0	2	2	359	494	34	34
SCIP_110	662524.58	733014.79	0	2	2	359	494	35	35
SCIP_110	662524.58	733014.79	0	2	2	359	494	36	36
SCIP_110a	662524.6	733015.64	-53823	2	2	359	494	29	29
SCIP_110a	662524.6	733015.64	-53823	2	2	359	494	30	30
SCIP_110a	662524.6	733015.64	-53823	2	2	359	494	31	31
SCIP_110a	662524.6	733015.64	-53823	2	2	359	494	32	32
SCIP_110a	662524.6	733015.64	-53823	2	2	359	494	33	33
SCIP_110a	662524.6	733015.64	-53823	2	2	359	494	34	34
SCIP_110a	662524.6	733015.64	-53823	2	2	359	494	35	35
SCIP_110a	662524.6	733015.64	-53823	2	2	359	494	36	36

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_110b	662527.8	732351.78	-74350	2	2	361	494	29	29
SCIP_110b	662527.8	732351.78	-74350	2	2	361	494	30	30
SCIP_110b	662527.8	732351.78	-74350	2	2	361	494	31	31
SCIP_110b	662527.8	732351.78	-74350	2	2	361	494	32	32
SCIP_110b	662527.8	732351.78	-74350	2	2	361	494	33	33
SCIP_110b	662527.8	732351.78	-74350	2	2	361	494	34	34
SCIP_110b	662527.8	732351.78	-74350	2	2	361	494	35	35
SCIP_110b	662527.8	732351.78	-74350	2	2	361	494	36	36
SCIP_80	658731.77	729151.31	-63490	2	2	367	486	29	29
SCIP_80	658731.77	729151.31	-63490	2	2	367	486	30	30
SCIP_80	658731.77	729151.31	-63490	2	2	367	486	31	31
SCIP_80	658731.77	729151.31	-63490	2	2	367	486	32	32
SCIP_80	658731.77	729151.31	-63490	2	2	367	486	33	33
SCIP_80	658731.77	729151.31	-63490	2	2	367	486	34	34
SCIP_80	658731.77	729151.31	-63490	2	2	367	486	35	35
SCIP_80	658731.77	729151.31	-63490	2	2	367	486	36	36
SCIP_89	657431.12	725874.8	-38070	2	2	374	484	29	29
SCIP_89	657431.12	725874.8	-38070	2	2	374	484	30	30
SCIP_89	657431.12	725874.8	-38070	2	2	374	484	31	31
SCIP_89	657431.12	725874.8	-38070	2	2	374	484	32	32
SCIP_89	657431.12	725874.8	-38070	2	2	374	484	33	33
SCIP_89	657431.12	725874.8	-38070	2	2	374	484	34	34
SCIP_89	657431.12	725874.8	-38070	2	2	374	484	35	35
SCIP_89	657431.12	725874.8	-38070	2	2	374	484	36	36
SCIP_21	627708.03	725465.05	0	2	2	375	10	29	29
SCIP_21	627708.03	725465.05	0	2	2	375	10	30	30
SCIP_21	627708.03	725465.05	0	2	2	375	10	31	31
SCIP_21	627708.03	725465.05	0	2	2	375	10	32	32
SCIP_21	627708.03	725465.05	0	2	2	375	10	33	33
SCIP_21	627708.03	725465.05	0	2	2	375	10	34	34

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_21	627708.03	725465.05	0	2	2	375	10	35	35
SCIP_21	627708.03	725465.05	0	2	2	375	10	36	36
SCIP_79	654805.24	725220.46	-127219	2	2	375	476	29	29
SCIP_79	654805.24	725220.46	-127219	2	2	375	476	30	30
SCIP_79	654805.24	725220.46	-127219	2	2	375	476	31	31
SCIP_79	654805.24	725220.46	-127219	2	2	375	476	32	32
SCIP_79	654805.24	725220.46	-127219	2	2	375	476	33	33
SCIP_79	654805.24	725220.46	-127219	2	2	375	476	34	34
SCIP_79	654805.24	725220.46	-127219	2	2	375	476	35	35
SCIP_79	654805.24	725220.46	-127219	2	2	375	476	36	36
SCIP_21b	627060.5	724798.58	-85807	2	2	376	9	29	29
SCIP_21b	627060.5	724798.58	-85807	2	2	376	9	30	30
SCIP_21b	627060.5	724798.58	-85807	2	2	376	9	31	31
SCIP_21b	627060.5	724798.58	-85807	2	2	376	9	32	32
SCIP_21b	627060.5	724798.58	-85807	2	2	376	9	33	33
SCIP_21b	627060.5	724798.58	-85807	2	2	376	9	34	34
SCIP_21b	627060.5	724798.58	-85807	2	2	376	9	35	35
SCIP_21b	627060.5	724798.58	-85807	2	2	376	9	36	36
SCIP_20	633775.21	724533.23	-31268	2	2	376	23	29	29
SCIP_20	633775.21	724533.23	-31268	2	2	376	23	30	30
SCIP_20	633775.21	724533.23	-31268	2	2	376	23	31	31
SCIP_20	633775.21	724533.23	-31268	2	2	376	23	32	32
SCIP_20	633775.21	724533.23	-31268	2	2	376	23	33	33
SCIP_20	633775.21	724533.23	-31268	2	2	376	23	34	34
SCIP_20	633775.21	724533.23	-31268	2	2	376	23	35	35
SCIP_20	633775.21	724533.23	-31268	2	2	376	23	36	36
SCIP_20b	633775.21	724533.23	0	2	2	376	23	29	29
SCIP_20b	633775.21	724533.23	0	2	2	376	23	30	30
SCIP_20b	633775.21	724533.23	0	2	2	376	23	31	31
SCIP_20b	633775.21	724533.23	0	2	2	376	23	32	32

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_20b	633775.21	724533.23	0	2	2	376	23	33	33
SCIP_20b	633775.21	724533.23	0	2	2	376	23	34	34
SCIP_20b	633775.21	724533.23	0	2	2	376	23	35	35
SCIP_20b	633775.21	724533.23	0	2	2	376	23	36	36
SCIP_22	625100.85	724106.64	0	3	3	377	5	29	29
SCIP_22	625100.85	724106.64	0	3	3	377	5	30	30
SCIP_22	625100.85	724106.64	0	3	3	377	5	31	31
SCIP_22	625100.85	724106.64	0	3	3	377	5	32	32
SCIP_22	625100.85	724106.64	0	3	3	377	5	33	33
SCIP_22	625100.85	724106.64	0	3	3	377	5	34	34
SCIP_22	625100.85	724106.64	0	3	3	377	5	35	35
SCIP_22	625100.85	724106.64	0	3	3	377	5	36	36
SCIP_16	628997.95	724173.4	0	2	2	377	13	29	29
SCIP_16	628997.95	724173.4	0	2	2	377	13	30	30
SCIP_16	628997.95	724173.4	0	2	2	377	13	31	31
SCIP_16	628997.95	724173.4	0	2	2	377	13	32	32
SCIP_16	628997.95	724173.4	0	2	2	377	13	33	33
SCIP_16	628997.95	724173.4	0	2	2	377	13	34	34
SCIP_16	628997.95	724173.4	0	2	2	377	13	35	35
SCIP_16	628997.95	724173.4	0	2	2	377	13	36	36
SCIP_111	640308.04	723260.4	-60984	2	2	379	36	29	29
SCIP_111	640308.04	723260.4	-60984	2	2	379	36	30	30
SCIP_111	640308.04	723260.4	-60984	2	2	379	36	31	31
SCIP_111	640308.04	723260.4	-60984	2	2	379	36	32	32
SCIP_111	640308.04	723260.4	-60984	2	2	379	36	33	33
SCIP_111	640308.04	723260.4	-60984	2	2	379	36	34	34
SCIP_111	640308.04	723260.4	-60984	2	2	379	36	35	35
SCIP_111	640308.04	723260.4	-60984	2	2	379	36	36	36
SCIP_74b	650227.89	720570.42	-87955	2	2	384	357	29	29
SCIP_74b	650227.89	720570.42	-87955	2	2	384	357	30	30

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_74b	650227.89	720570.42	-87955	2	2	384	357	31	31
SCIP_74b	650227.89	720570.42	-87955	2	2	384	357	32	32
SCIP_74b	650227.89	720570.42	-87955	2	2	384	357	33	33
SCIP_74b	650227.89	720570.42	-87955	2	2	384	357	34	34
SCIP_74b	650227.89	720570.42	-87955	2	2	384	357	35	35
SCIP_74b	650227.89	720570.42	-87955	2	2	384	357	36	36
SCIP_112	652193.09	720546.18	-75186	2	2	384	441	29	29
SCIP_112	652193.09	720546.18	-75186	2	2	384	441	30	30
SCIP_112	652193.09	720546.18	-75186	2	2	384	441	31	31
SCIP_112	652193.09	720546.18	-75186	2	2	384	441	32	32
SCIP_112	652193.09	720546.18	-75186	2	2	384	441	33	33
SCIP_112	652193.09	720546.18	-75186	2	2	384	441	34	34
SCIP_112	652193.09	720546.18	-75186	2	2	384	441	35	35
SCIP_112	652193.09	720546.18	-75186	2	2	384	441	36	36
SCIP_23b	626084.6	720484.24	-15156	2	2	385	7	29	29
SCIP_23b	626084.6	720484.24	-15156	2	2	385	7	30	30
SCIP_23b	626084.6	720484.24	-15156	2	2	385	7	31	31
SCIP_23b	626084.6	720484.24	-15156	2	2	385	7	32	32
SCIP_23b	626084.6	720484.24	-15156	2	2	385	7	33	33
SCIP_23b	626084.6	720484.24	-15156	2	2	385	7	34	34
SCIP_23b	626084.6	720484.24	-15156	2	2	385	7	35	35
SCIP_23b	626084.6	720484.24	-15156	2	2	385	7	36	36
SCIP_23	626406.99	720160.15	0	2	2	385	8	29	29
SCIP_23	626406.99	720160.15	0	2	2	385	8	30	30
SCIP_23	626406.99	720160.15	0	2	2	385	8	31	31
SCIP_23	626406.99	720160.15	0	2	2	385	8	32	32
SCIP_23	626406.99	720160.15	0	2	2	385	8	33	33
SCIP_23	626406.99	720160.15	0	2	2	385	8	34	34
SCIP_23	626406.99	720160.15	0	2	2	385	8	35	35
SCIP_23	626406.99	720160.15	0	2	2	385	8	36	36

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_122b	663206	720079.15	-169824	3	3	385	495	29	29
SCIP_122b	663206	720079.15	-169824	3	3	385	495	30	30
SCIP_122b	663206	720079.15	-169824	3	3	385	495	31	31
SCIP_122b	663206	720079.15	-169824	3	3	385	495	32	32
SCIP_122b	663206	720079.15	-169824	3	3	385	495	33	33
SCIP_122b	663206	720079.15	-169824	3	3	385	495	34	34
SCIP_122b	663206	720079.15	-169824	3	3	385	495	35	35
SCIP_122b	663206	720079.15	-169824	3	3	385	495	36	36
SCIP_19	633150.04	719934.44	-56210	2	2	386	21	29	29
SCIP_19	633150.04	719934.44	-56210	2	2	386	21	30	30
SCIP_19	633150.04	719934.44	-56210	2	2	386	21	31	31
SCIP_19	633150.04	719934.44	-56210	2	2	386	21	32	32
SCIP_19	633150.04	719934.44	-56210	2	2	386	21	33	33
SCIP_19	633150.04	719934.44	-56210	2	2	386	21	34	34
SCIP_19	633150.04	719934.44	-56210	2	2	386	21	35	35
SCIP_19	633150.04	719934.44	-56210	2	2	386	21	36	36
SCIP_25	646324.65	719953.83	-19811	2	2	386	89	29	29
SCIP_25	646324.65	719953.83	-19811	2	2	386	89	30	30
SCIP_25	646324.65	719953.83	-19811	2	2	386	89	31	31
SCIP_25	646324.65	719953.83	-19811	2	2	386	89	32	32
SCIP_25	646324.65	719953.83	-19811	2	2	386	89	33	33
SCIP_25	646324.65	719953.83	-19811	2	2	386	89	34	34
SCIP_25	646324.65	719953.83	-19811	2	2	386	89	35	35
SCIP_25	646324.65	719953.83	-19811	2	2	386	89	36	36
SCIP_26	631580.34	717602.72	0	3	3	390	18	29	29
SCIP_26	631580.34	717602.72	0	3	3	390	18	30	30
SCIP_26	631580.34	717602.72	0	3	3	390	18	31	31
SCIP_26	631580.34	717602.72	0	3	3	390	18	32	32
SCIP_26	631580.34	717602.72	0	3	3	390	18	33	33
SCIP_26	631580.34	717602.72	0	3	3	390	18	34	34

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
SCIP_26	631580.34	717602.72	0	3	3	390	18	35	35
SCIP_26	631580.34	717602.72	0	3	3	390	18	36	36
SCIP_24b	628672.71	717220.34	-60	2	2	391	12	29	29
SCIP_24b	628672.71	717220.34	-60	2	2	391	12	30	30
SCIP_24b	628672.71	717220.34	-60	2	2	391	12	31	31
SCIP_24b	628672.71	717220.34	-60	2	2	391	12	32	32
SCIP_24b	628672.71	717220.34	-60	2	2	391	12	33	33
SCIP_24b	628672.71	717220.34	-60	2	2	391	12	34	34
SCIP_24b	628672.71	717220.34	-60	2	2	391	12	35	35
SCIP_24b	628672.71	717220.34	-60	2	2	391	12	36	36
SCIP_26b	631266.06	717267.57	-23868	2	2	391	18	29	29
SCIP_26b	631266.06	717267.57	-23868	2	2	391	18	30	30
SCIP_26b	631266.06	717267.57	-23868	2	2	391	18	31	31
SCIP_26b	631266.06	717267.57	-23868	2	2	391	18	32	32
SCIP_26b	631266.06	717267.57	-23868	2	2	391	18	33	33
SCIP_26b	631266.06	717267.57	-23868	2	2	391	18	34	34
SCIP_26b	631266.06	717267.57	-23868	2	2	391	18	35	35
SCIP_26b	631266.06	717267.57	-23868	2	2	391	18	36	36
201420	625188.02	734891.42	-6202	5	4	356	5	29	29
201420	625188.02	734891.42	-4890	5	4	356	5	30	30
201420	625188.02	734891.42	-5605	5	4	356	5	31	31
201420	625188.02	734891.42	-10042	5	4	356	5	32	32
201420	625188.02	734891.42	-8360	5	4	356	5	33	33
201420	625188.02	734891.42	-9791	5	4	356	5	34	34
201420	625188.02	734891.42	-8871	5	4	356	5	35	35
201420	625188.02	734891.42	-8871	5	4	356	5	36	36
211602	638045.77	754766.74	-33906	5	4	34	31	29	29
211602	638045.77	754766.74	-32463	5	4	34	31	30	30
211602	638045.77	754766.74	-43649	5	4	34	31	31	31
211602	638045.77	754766.74	-48587	5	4	34	31	32	32

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
211602	638045.77	754766.74	-43148	5	4	34	31	33	33
211602	638045.77	754766.74	-59702	5	4	34	31	34	34
211602	638045.77	754766.74	-76112	5	4	34	31	35	35
211602	638045.77	754766.74	-76112	5	4	34	31	36	36
212514	636775.28	748828.65	-26142	5	4	107	29	29	29
212514	636775.28	748828.65	-34788	5	4	107	29	30	30
212514	636775.28	748828.65	-34848	5	4	107	29	31	31
212514	636775.28	748828.65	-27859	5	4	107	29	32	32
212514	636775.28	748828.65	-26082	5	4	107	29	33	33
212514	636775.28	748828.65	-41502	5	4	107	29	34	34
212514	636775.28	748828.65	-19964	5	4	107	29	35	35
212514	636775.28	748828.65	-19964	5	4	107	29	36	36
523132	668906.1	736982.44	-47465	5	4	352	507	29	29
523132	668906.1	736982.44	-60226	5	4	352	507	30	30
523132	668906.1	736982.44	-48825	5	4	352	507	31	31
523132	668906.1	736982.44	-41883	5	4	352	507	32	32
523132	668906.1	736982.44	-45864	5	4	352	507	33	33
523132	668906.1	736982.44	-58405	5	4	352	507	34	34
523132	668906.1	736982.44	-45200	5	4	352	507	35	35
523132	668906.1	736982.44	-45200	5	4	352	507	36	36
523133	665756.82	736997.65	-40906	5	4	352	501	29	29
523133	665756.82	736997.65	-55694	5	4	352	501	30	30
523133	665756.82	736997.65	-42528	5	4	352	501	31	31
523133	665756.82	736997.65	-40279	5	4	352	501	32	32
523133	665756.82	736997.65	-39307	5	4	352	501	33	33
523133	665756.82	736997.65	-27301	5	4	352	501	34	34
523133	665756.82	736997.65	-40071	5	4	352	501	35	35
523133	665756.82	736997.65	-40071	5	4	352	501	36	36
676953.01	676953.01	740380.47	-97072	5	4	343	523	29	29
676953.01	676953.01	740380.47	-78616	5	4	343	523	30	30

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
676953.01	676953.01	740380.47	-89276	5	4	343	523	31	31
676953.01	676953.01	740380.47	-99821	5	4	343	523	32	32
676953.01	676953.01	740380.47	-96481	5	4	343	523	33	33
676953.01	676953.01	740380.47	-103518	5	4	343	523	34	34
676953.01	676953.01	740380.47	-118067	5	4	343	523	35	35
676953.01	676953.01	740380.47	-118067	5	4	343	523	36	36
562121	649259.53	744868.1	0	8	4	280	279	29	29
562121	649259.53	744868.1	-1	8	4	280	279	30	30
562121	649259.53	744868.1	0	8	4	280	279	31	31
562121	649259.53	744868.1	0	8	4	280	279	32	32
562121	649259.53	744868.1	0	8	4	280	279	33	33
562121	649259.53	744868.1	0	8	4	280	279	34	34
562121	649259.53	744868.1	0	8	4	280	279	35	35
562121	649259.53	744868.1	0	8	4	280	279	36	36
569177	632238.71	744788.52	-21956	5	4	282	19	29	29
569177	632238.71	744788.52	-15456	5	4	282	19	30	30
569177	632238.71	744788.52	-7096	5	4	282	19	31	31
569177	632238.71	744788.52	-14311	5	4	282	19	32	32
569177	632238.71	744788.52	-31270	5	4	282	19	33	33
569177	632238.71	744788.52	-3113	5	4	282	19	34	34
569177	632238.71	744788.52	-17984	5	4	282	19	35	35
569177	632238.71	744788.52	-17984	5	4	282	19	36	36
571198	640650.65	760709.93	-18163	5	4	22	36	29	29
571198	640650.65	760709.93	-19034	5	4	22	36	30	30
571198	640650.65	760709.93	-28459	5	4	22	36	31	31
571198	640650.65	760709.93	-25164	5	4	22	36	32	32
571198	640650.65	760709.93	-33703	5	4	22	36	33	33
571198	640650.65	760709.93	-33834	5	4	22	36	34	34
571198	640650.65	760709.93	-27239	5	4	22	36	35	35
571198	640650.65	760709.93	-27239	5	4	22	36	36	36

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
574011	638809.67	738912.28	0	3	3	348	33	29	29
574011	638809.67	738912.28	0	3	3	348	33	30	30
574011	638809.67	738912.28	0	3	3	348	33	31	31
574011	638809.67	738912.28	0	3	3	348	33	32	32
574011	638809.67	738912.28	0	3	3	348	33	33	33
574011	638809.67	738912.28	-7517	3	3	348	33	34	34
574011	638809.67	738912.28	0	3	3	348	33	35	35
574011	638809.67	738912.28	0	3	3	348	33	36	36
583151	632228.61	746773.93	-17639	5	4	176	19	29	29
583151	632228.61	746773.93	-28181	5	4	176	19	30	30
583151	632228.61	746773.93	-29076	5	4	176	19	31	31
583151	632228.61	746773.93	-43768	5	4	176	19	32	32
583151	632228.61	746773.93	-24961	5	4	176	19	33	33
583151	632228.61	746773.93	-26690	5	4	176	19	34	34
583151	632228.61	746773.93	-24544	5	4	176	19	35	35
583151	632228.61	746773.93	-24544	5	4	176	19	36	36
594058	630286.89	739523.86	-11383	5	4	346	16	29	29
594058	630286.89	739523.86	-3123	5	4	346	16	30	30
594058	630286.89	739523.86	-4252	5	4	346	16	31	31
594058	630286.89	739523.86	-5349	5	4	346	16	32	32
594058	630286.89	739523.86	-11385	5	4	346	16	33	33
594058	630286.89	739523.86	-11807	5	4	346	16	34	34
594058	630286.89	739523.86	-12642	5	4	346	16	35	35
594058	630286.89	739523.86	-12642	5	4	346	16	36	36
600577	638118.09	744186.73	-54158	5	4	294	31	29	29
600577	638118.09	744186.73	-57959	5	4	294	31	30	30
600577	638118.09	744186.73	-65569	5	4	294	31	31	31
600577	638118.09	744186.73	-68196	5	4	294	31	32	32
600577	638118.09	744186.73	-43687	5	4	294	31	33	33
600577	638118.09	744186.73	-56040	5	4	294	31	34	34

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
600577	638118.09	744186.73	-56776	5	4	294	31	35	35
600577	638118.09	744186.73	-56776	5	4	294	31	36	36
600579	636805.93	744188.41	-72152	5	4	294	29	29	29
600579	636805.93	744188.41	-80250	5	4	294	29	30	30
600579	636805.93	744188.41	-79365	5	4	294	29	31	31
600579	636805.93	744188.41	-73693	5	4	294	29	32	32
600579	636805.93	744188.41	-39178	5	4	294	29	33	33
600579	636805.93	744188.41	-74417	5	4	294	29	34	34
600579	636805.93	744188.41	-72004	5	4	294	29	35	35
600579	636805.93	744188.41	-72004	5	4	294	29	36	36
601789	638288.88	726518.81	-39981	5	4	372	32	29	29
601789	638288.88	726518.81	-92427	5	4	372	32	30	30
601789	638288.88	726518.81	-35897	5	4	372	32	31	31
601789	638288.88	726518.81	-33512	5	4	372	32	32	32
601789	638288.88	726518.81	-39475	5	4	372	32	33	33
601789	638288.88	726518.81	-61799	5	4	372	32	34	34
601789	638288.88	726518.81	-19715	5	4	372	32	35	35
601789	638288.88	726518.81	-19715	5	4	372	32	36	36
601790	638287.42	727175.16	-79630	5	4	371	32	29	29
601790	638287.42	727175.16	-74538	5	4	371	32	30	30
601790	638287.42	727175.16	-77042	5	4	371	32	31	31
601790	638287.42	727175.16	-76446	5	4	371	32	32	32
601790	638287.42	727175.16	-95289	5	4	371	32	33	33
601790	638287.42	727175.16	-74753	5	4	371	32	34	34
601790	638287.42	727175.16	-52727	5	4	371	32	35	35
601790	638287.42	727175.16	-52727	5	4	371	32	36	36
601791	631914.69	727145.89	-25822	3	3	371	19	29	29
601791	631914.69	727145.89	0	3	3	371	19	30	30
601791	631914.69	727145.89	-25760	3	3	371	19	31	31
601791	631914.69	727145.89	-32081	3	3	371	19	32	32

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
601791	631914.69	727145.89	-24329	3	3	371	19	33	33
601791	631914.69	727145.89	0	3	3	371	19	34	34
601791	631914.69	727145.89	-15516	3	3	371	19	35	35
601791	631914.69	727145.89	-15516	3	3	371	19	36	36
601792	638288.88	726518.81	-66713	3	3	372	32	29	29
601792	638288.88	726518.81	-56768	3	3	372	32	30	30
601792	638288.88	726518.81	-48897	3	3	372	32	31	31
601792	638288.88	726518.81	-53071	3	3	372	32	32	32
601792	638288.88	726518.81	-79189	3	3	372	32	33	33
601792	638288.88	726518.81	-82198	3	3	372	32	34	34
601792	638288.88	726518.81	-39012	3	3	372	32	35	35
601792	638288.88	726518.81	-39012	3	3	372	32	36	36
603850	655910.37	736314.49	-67380	5	4	353	480	29	29
603850	655910.37	736314.49	-98747	5	4	353	480	30	30
603850	655910.37	736314.49	-70125	5	4	353	480	31	31
603850	655910.37	736314.49	-64639	5	4	353	480	32	32
603850	655910.37	736314.49	-94096	5	4	353	480	33	33
603850	655910.37	736314.49	-55456	5	4	353	480	34	34
603850	655910.37	736314.49	-59511	5	4	353	480	35	35
603850	655910.37	736314.49	-59511	5	4	353	480	36	36
603851	651318.54	733632.55	-7443	5	4	358	424	29	29
603851	651318.54	733632.55	-52713	5	4	358	424	30	30
603851	651318.54	733632.55	-13834	5	4	358	424	31	31
603851	651318.54	733632.55	-12642	5	4	358	424	32	32
603851	651318.54	733632.55	-21109	5	4	358	424	33	33
603851	651318.54	733632.55	-13238	5	4	358	424	34	34
603851	651318.54	733632.55	-7752	5	4	358	424	35	35
603851	651318.54	733632.55	-7752	5	4	358	424	36	36
604492	638170.12	738260.18	-49505	5	4	349	31	29	29
604492	638170.12	738260.18	-68715	5	4	349	31	30	30

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
604492	638170.12	738260.18	-52545	5	4	349	31	31	31
604492	638170.12	738260.18	-53291	5	4	349	31	32	32
604492	638170.12	738260.18	-44411	5	4	349	31	33	33
604492	638170.12	738260.18	-50776	5	4	349	31	34	34
604492	638170.12	738260.18	-67737	5	4	349	31	35	35
604492	638170.12	738260.18	-67737	5	4	349	31	36	36
605133	651494.4	730476.93	-89004	5	4	365	427	29	29
605133	651494.4	730476.93	-59809	5	4	365	427	30	30
605133	651494.4	730476.93	-69141	5	4	365	427	31	31
605133	651494.4	730476.93	-46807	5	4	365	427	32	32
605133	651494.4	730476.93	-27668	5	4	365	427	33	33
605133	651494.4	730476.93	-32439	5	4	365	427	34	34
605133	651494.4	730476.93	-10495	5	4	365	427	35	35
605133	651494.4	730476.93	-10495	5	4	365	427	36	36
605134	651546.18	721219.24	-61345	5	4	383	428	29	29
605134	651546.18	721219.24	-65702	5	4	383	428	30	30
605134	651546.18	721219.24	-57960	5	4	383	428	31	31
605134	651546.18	721219.24	-62254	5	4	383	428	32	32
605134	651546.18	721219.24	-80381	5	4	383	428	33	33
605134	651546.18	721219.24	-137984	5	4	383	428	34	34
605134	651546.18	721219.24	-65116	5	4	383	428	35	35
605134	651546.18	721219.24	-65116	5	4	383	428	36	36
605529	679485.53	751584.08	-59407	5	4	53	528	29	29
605529	679485.53	751584.08	-68641	5	4	53	528	30	30
605529	679485.53	751584.08	-58557	5	4	53	528	31	31
605529	679485.53	751584.08	-30054	5	4	53	528	32	32
605529	679485.53	751584.08	-29457	5	4	53	528	33	33
605529	679485.53	751584.08	-46034	5	4	53	528	34	34
605529	679485.53	751584.08	-32025	5	4	53	528	35	35
605529	679485.53	751584.08	-32025	5	4	53	528	36	36

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
605530	669649.98	747573.07	-51860	5	4	132	508	29	29
605530	669649.98	747573.07	-63845	5	4	132	508	30	30
605530	669649.98	747573.07	-49016	5	4	132	508	31	31
605530	669649.98	747573.07	-22421	5	4	132	508	32	32
605530	669649.98	747573.07	-33274	5	4	132	508	33	33
605530	669649.98	747573.07	-63804	5	4	132	508	34	34
605530	669649.98	747573.07	-36626	5	4	132	508	35	35
605530	669649.98	747573.07	-36626	5	4	132	508	36	36
606372	635601.12	732369.87	-13227	5	4	361	26	29	29
606372	635601.12	732369.87	-8482	5	4	361	26	30	30
606372	635601.12	732369.87	0	5	4	361	26	31	31
606372	635601.12	732369.87	0	5	4	361	26	32	32
606372	635601.12	732369.87	-11410	5	4	361	26	33	33
606372	635601.12	732369.87	-10727	5	4	361	26	34	34
606372	635601.12	732369.87	-7591	5	4	361	26	35	35
606372	635601.12	732369.87	-7591	5	4	361	26	36	36
606373	635608.98	730413.96	0	3	3	365	26	29	29
606373	635608.98	730413.96	0	3	3	365	26	30	30
606373	635608.98	730413.96	0	3	3	365	26	31	31
606373	635608.98	730413.96	0	3	3	365	26	32	32
606373	635608.98	730413.96	-1732	3	3	365	26	33	33
606373	635608.98	730413.96	0	3	3	365	26	34	34
606373	635608.98	730413.96	0	3	3	365	26	35	35
606373	635608.98	730413.96	0	3	3	365	26	36	36
606374	634327.21	733668.21	-1808	5	4	358	24	29	29
606374	634327.21	733668.21	-120	5	4	358	24	30	30
606374	634327.21	733668.21	0	5	4	358	24	31	31
606374	634327.21	733668.21	0	5	4	358	24	32	32
606374	634327.21	733668.21	0	5	4	358	24	33	33
606374	634327.21	733668.21	0	5	4	358	24	34	34

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
606374	634327.21	733668.21	0	5	4	358	24	35	35
606374	634327.21	733668.21	0	5	4	358	24	36	36
608009	634611.61	735305.04	-54374	5	4	355	24	29	29
608009	634611.61	735305.04	-67917	5	4	355	24	30	30
608009	634611.61	735305.04	-68217	5	4	355	24	31	31
608009	634611.61	735305.04	-53786	5	4	355	24	32	32
608009	634611.61	735305.04	-44126	5	4	355	24	33	33
608009	634611.61	735305.04	-31604	5	4	355	24	34	34
608009	634611.61	735305.04	-14311	5	4	355	24	35	35
608009	634611.61	735305.04	-14311	5	4	355	24	36	36
608010	634288.62	734970.76	-71923	5	4	356	24	29	29
608010	634288.62	734970.76	-83828	5	4	356	24	30	30
608010	634288.62	734970.76	-81574	5	4	356	24	31	31
608010	634288.62	734970.76	-75015	5	4	356	24	32	32
608010	634288.62	734970.76	-50328	5	4	356	24	33	33
608010	634288.62	734970.76	-75611	5	4	356	24	34	34
608010	634288.62	734970.76	-40429	5	4	356	24	35	35
608010	634288.62	734970.76	-40429	5	4	356	24	36	36
608734	652140.01	730472.71	-15405	3	3	365	440	29	29
608734	652140.01	730472.71	-6296	3	3	365	440	30	30
608734	652140.01	730472.71	-9779	3	3	365	440	31	31
608734	652140.01	730472.71	0	3	3	365	440	32	32
608734	652140.01	730472.71	0	3	3	365	440	33	33
608734	652140.01	730472.71	-4532	3	3	365	440	34	34
608734	652140.01	730472.71	0	3	3	365	440	35	35
608734	652140.01	730472.71	0	3	3	365	440	36	36
609668	642727.21	740892.58	-103775	3	3	341	42	29	29
609668	642727.21	740892.58	-84233	3	3	341	42	30	30
609668	642727.21	740892.58	-72659	3	3	341	42	31	31
609668	642727.21	740892.58	-89230	3	3	341	42	32	32

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
609668	642727.21	740892.58	-54934	3	3	341	42	33	33
609668	642727.21	740892.58	-30513	3	3	341	42	34	34
609668	642727.21	740892.58	-27171	3	3	341	42	35	35
609668	642727.21	740892.58	-27171	3	3	341	42	36	36
609670	642061.44	742869.01	-99419	5	4	320	40	29	29
609670	642061.44	742869.01	-84925	5	4	320	40	30	30
609670	642061.44	742869.01	-76504	5	4	320	40	31	31
609670	642061.44	742869.01	-74782	5	4	320	40	32	32
609670	642061.44	742869.01	-54108	5	4	320	40	33	33
609670	642061.44	742869.01	0	5	4	320	40	34	34
609670	642061.44	742869.01	0	5	4	320	40	35	35
609670	642061.44	742869.01	0	5	4	320	40	36	36
609672	643369.95	744189.88	-70695	5	4	294	45	29	29
609672	643369.95	744189.88	-71724	5	4	294	45	30	30
609672	643369.95	744189.88	-66497	5	4	294	45	31	31
609672	643369.95	744189.88	-54769	5	4	294	45	32	32
609672	643369.95	744189.88	-35619	5	4	294	45	33	33
609672	643369.95	744189.88	-30703	5	4	294	45	34	34
609672	643369.95	744189.88	-23673	5	4	294	45	35	35
609672	643369.95	744189.88	-23673	5	4	294	45	36	36
609760	623972.56	731631.83	-1121	5	4	362	3	29	29
609760	623972.56	731631.83	-1121	5	4	362	3	30	30
609760	623972.56	731631.83	0	5	4	362	3	31	31
609760	623972.56	731631.83	0	5	4	362	3	32	32
609760	623972.56	731631.83	0	5	4	362	3	33	33
609760	623972.56	731631.83	-1121	5	4	362	3	34	34
609760	623972.56	731631.83	-1121	5	4	362	3	35	35
609760	623972.56	731631.83	-1121	5	4	362	3	36	36
609761	625301.64	731646.7	-16748	5	4	362	6	29	29
609761	625301.64	731646.7	-30217	5	4	362	6	30	30

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
609761	625301.64	731646.7	-21765	5	4	362	6	31	31
609761	625301.64	731646.7	-26285	5	4	362	6	32	32
609761	625301.64	731646.7	-25531	5	4	362	6	33	33
609761	625301.64	731646.7	-24407	5	4	362	6	34	34
609761	625301.64	731646.7	-9182	5	4	362	6	35	35
609761	625301.64	731646.7	-9182	5	4	362	6	36	36
610135	672344.46	741003.22	-63135	5	4	340	514	29	29
610135	672344.46	741003.22	-64674	5	4	340	514	30	30
610135	672344.46	741003.22	-43530	5	4	340	514	31	31
610135	672344.46	741003.22	-12284	5	4	340	514	32	32
610135	672344.46	741003.22	-57006	5	4	340	514	33	33
610135	672344.46	741003.22	-47346	5	4	340	514	34	34
610135	672344.46	741003.22	-27311	5	4	340	514	35	35
610135	672344.46	741003.22	-27311	5	4	340	514	36	36
610136	667692.51	736968.58	-42182	5	4	352	504	29	29
610136	667692.51	736968.58	-36878	5	4	352	504	30	30
610136	667692.51	736968.58	-43430	5	4	352	504	31	31
610136	667692.51	736968.58	-48658	5	4	352	504	32	32
610136	667692.51	736968.58	-49851	5	4	352	504	33	33
610136	667692.51	736968.58	0	5	4	352	504	34	34
610136	667692.51	736968.58	-85449	5	4	352	504	35	35
610136	667692.51	736968.58	-85449	5	4	352	504	36	36
610141	674884.59	747608.9	-117029	5	4	131	519	29	29
610141	674884.59	747608.9	-96733	5	4	131	519	30	30
610141	674884.59	747608.9	-113297	5	4	131	519	31	31
610141	674884.59	747608.9	-74180	5	4	131	519	32	32
610141	674884.59	747608.9	-97316	5	4	131	519	33	33
610141	674884.59	747608.9	-113774	5	4	131	519	34	34
610141	674884.59	747608.9	-100536	5	4	131	519	35	35
610141	674884.59	747608.9	-100536	5	4	131	519	36	36

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
610432	663108.53	747493.01	-138059	5	4	134	495	29	29
610432	663108.53	747493.01	-124724	5	4	134	495	30	30
610432	663108.53	747493.01	-140943	5	4	134	495	31	31
610432	663108.53	747493.01	-145616	5	4	134	495	32	32
610432	663108.53	747493.01	-63840	5	4	134	495	33	33
610432	663108.53	747493.01	-38998	5	4	134	495	34	34
610432	663108.53	747493.01	-30888	5	4	134	495	35	35
610432	663108.53	747493.01	-30888	5	4	134	495	36	36
610523	629999.4	729095.01	-650	2	2	367	15	29	29
610523	629999.4	729095.01	-1920	2	2	367	15	30	30
610523	629999.4	729095.01	-1312	2	2	367	15	31	31
610523	629999.4	729095.01	-1146	2	2	367	15	32	32
610523	629999.4	729095.01	-594	2	2	367	15	33	33
610523	629999.4	729095.01	-1283	2	2	367	15	34	34
610523	629999.4	729095.01	-1710	2	2	367	15	35	35
610523	629999.4	729095.01	-1710	2	2	367	15	36	36
610621	636616.85	770612.09	0	5	4	2	28	29	29
610621	636616.85	770612.09	-12367	5	4	2	28	30	30
610621	636616.85	770612.09	-56389	5	4	2	28	31	31
610621	636616.85	770612.09	-48016	5	4	2	28	32	32
610621	636616.85	770612.09	-46019	5	4	2	28	33	33
610621	636616.85	770612.09	-40785	5	4	2	28	34	34
610621	636616.85	770612.09	-58707	5	4	2	28	35	35
610621	636616.85	770612.09	-58707	5	4	2	28	36	36
610622	639240.52	770608.77	0	5	4	2	33	29	29
610622	639240.52	770608.77	0	5	4	2	33	30	30
610622	639240.52	770608.77	-66536	5	4	2	33	31	31
610622	639240.52	770608.77	-52092	5	4	2	33	32	32
610622	639240.52	770608.77	-47597	5	4	2	33	33	33
610622	639240.52	770608.77	-62007	5	4	2	33	34	34

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
610622	639240.52	770608.77	-44503	5	4	2	33	35	35
610622	639240.52	770608.77	-44503	5	4	2	33	36	36
610623	640552.38	770603.83	0	5	4	2	36	29	29
610623	640552.38	770603.83	0	5	4	2	36	30	30
610623	640552.38	770603.83	-50941	5	4	2	36	31	31
610623	640552.38	770603.83	-56514	5	4	2	36	32	32
610623	640552.38	770603.83	-49719	5	4	2	36	33	33
610623	640552.38	770603.83	-64066	5	4	2	36	34	34
610623	640552.38	770603.83	-9977	5	4	2	36	35	35
610623	640552.38	770603.83	-9977	5	4	2	36	36	36
610624	637928.68	770610.43	-85760	5	4	2	31	29	29
610624	637928.68	770610.43	-97658	5	4	2	31	30	30
610624	637928.68	770610.43	0	5	4	2	31	31	31
610624	637928.68	770610.43	0	5	4	2	31	32	32
610624	637928.68	770610.43	0	5	4	2	31	33	33
610624	637928.68	770610.43	0	5	4	2	31	34	34
610624	637928.68	770610.43	0	5	4	2	31	35	35
610624	637928.68	770610.43	0	5	4	2	31	36	36
610632	640567.49	769287.94	-61962	5	4	5	36	29	29
610632	640567.49	769287.94	-102087	5	4	5	36	30	30
610632	640567.49	769287.94	0	5	4	5	36	31	31
610632	640567.49	769287.94	0	5	4	5	36	32	32
610632	640567.49	769287.94	0	5	4	5	36	33	33
610632	640567.49	769287.94	0	5	4	5	36	34	34
610632	640567.49	769287.94	0	5	4	5	36	35	35
610632	640567.49	769287.94	0	5	4	5	36	36	36
610636	646351.5	717285	-20296	3	3	391	90	29	29
610636	646351.5	717285	-23839	3	3	391	90	30	30
610636	646351.5	717285	-26356	3	3	391	90	31	31
610636	646351.5	717285	-23017	3	3	391	90	32	32

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
610636	646351.5	717285	-23613	3	3	391	90	33	33
610636	646351.5	717285	-23136	3	3	391	90	34	34
610636	646351.5	717285	-10018	3	3	391	90	35	35
610636	646351.5	717285	-10018	3	3	391	90	36	36
612195	659332.96	730433.66	-64601	5	4	365	488	29	29
612195	659332.96	730433.66	-45557	5	4	365	488	30	30
612195	659332.96	730433.66	-34824	5	4	365	488	31	31
612195	659332.96	730433.66	-5724	5	4	365	488	32	32
612195	659332.96	730433.66	-29219	5	4	365	488	33	33
612195	659332.96	730433.66	-77996	5	4	365	488	34	34
612195	659332.96	730433.66	-43768	5	4	365	488	35	35
612195	659332.96	730433.66	-43768	5	4	365	488	36	36
612196	659302.51	731742.87	-93036	5	4	362	488	29	29
612196	659302.51	731742.87	-76565	5	4	362	488	30	30
612196	659302.51	731742.87	-56291	5	4	362	488	31	31
612196	659302.51	731742.87	-33512	5	4	362	488	32	32
612196	659302.51	731742.87	-89564	5	4	362	488	33	33
612196	659302.51	731742.87	-89564	5	4	362	488	34	34
612196	659302.51	731742.87	-56649	5	4	362	488	35	35
612196	659302.51	731742.87	-56649	5	4	362	488	36	36
612197	659302.51	731742.87	-101915	5	4	362	488	29	29
612197	659302.51	731742.87	-61061	5	4	362	488	30	30
612197	659302.51	731742.87	-68097	5	4	362	488	31	31
612197	659302.51	731742.87	-16339	5	4	362	488	32	32
612197	659302.51	731742.87	-60107	5	4	362	488	33	33
612197	659302.51	731742.87	-99105	5	4	362	488	34	34
612197	659302.51	731742.87	-65712	5	4	362	488	35	35
612197	659302.51	731742.87	-65712	5	4	362	488	36	36
612198	657456.56	729836.42	-81816	5	4	366	484	29	29
612198	657456.56	729836.42	-81335	5	4	366	484	30	30

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
612198	657456.56	729836.42	-73226	5	4	366	484	31	31
612198	657456.56	729836.42	-29099	5	4	366	484	32	32
612198	657456.56	729836.42	-65474	5	4	366	484	33	33
612198	657456.56	729836.42	-117590	5	4	366	484	34	34
612198	657456.56	729836.42	-65593	5	4	366	484	35	35
612198	657456.56	729836.42	-65593	5	4	366	484	36	36
612515	672980.13	742328.1	-118698	5	4	329	515	29	29
612515	672980.13	742328.1	-112556	5	4	329	515	30	30
612515	672980.13	742328.1	-103637	5	4	329	515	31	31
612515	672980.13	742328.1	-49970	5	4	329	515	32	32
612515	672980.13	742328.1	-61061	5	4	329	515	33	33
612515	672980.13	742328.1	-98628	5	4	329	515	34	34
612515	672980.13	742328.1	-57006	5	4	329	515	35	35
612515	672980.13	742328.1	-57006	5	4	329	515	36	36
612516	669723.91	739664.32	-4246	5	4	346	508	29	29
612516	669723.91	739664.32	-5627	5	4	346	508	30	30
612516	669723.91	739664.32	0	5	4	346	508	31	31
612516	669723.91	739664.32	0	5	4	346	508	32	32
612516	669723.91	739664.32	0	5	4	346	508	33	33
612516	669723.91	739664.32	-20871	5	4	346	508	34	34
612516	669723.91	739664.32	-18485	5	4	346	508	35	35
612516	669723.91	739664.32	-18485	5	4	346	508	36	36
612517	679484.72	748292.3	-26150	5	4	118	528	29	29
612517	679484.72	748292.3	-23955	5	4	118	528	30	30
612517	679484.72	748292.3	-23375	5	4	118	528	31	31
612517	679484.72	748292.3	-26476	5	4	118	528	32	32
612517	679484.72	748292.3	-36613	5	4	118	528	33	33
612517	679484.72	748292.3	-57006	5	4	118	528	34	34
612517	679484.72	748292.3	-31008	5	4	118	528	35	35
612517	679484.72	748292.3	-31008	5	4	118	528	36	36

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
612518	654789.46	723219.89	-124457	5	4	379	476	29	29
612518	654789.46	723219.89	-130120	5	4	379	476	30	30
612518	654789.46	723219.89	-139176	5	4	379	476	31	31
612518	654789.46	723219.89	-123315	5	4	379	476	32	32
612518	654789.46	723219.89	-105903	5	4	379	476	33	33
612518	654789.46	723219.89	-132140	5	4	379	476	34	34
612518	654789.46	723219.89	-37328	5	4	379	476	35	35
612518	654789.46	723219.89	-37328	5	4	379	476	36	36
612747	626063.22	729067.27	-41189	5	4	367	7	29	29
612747	626063.22	729067.27	-38144	5	4	367	7	30	30
612747	626063.22	729067.27	-44007	5	4	367	7	31	31
612747	626063.22	729067.27	-49851	5	4	367	7	32	32
612747	626063.22	729067.27	-38044	5	4	367	7	33	33
612747	626063.22	729067.27	-48658	5	4	367	7	34	34
612747	626063.22	729067.27	-32509	5	4	367	7	35	35
612747	626063.22	729067.27	-32509	5	4	367	7	36	36
612748	628029.99	729081.13	-44341	5	4	367	11	29	29
612748	628029.99	729081.13	-43636	5	4	367	11	30	30
612748	628029.99	729081.13	-51043	5	4	367	11	31	31
612748	628029.99	729081.13	-53071	5	4	367	11	32	32
612748	628029.99	729081.13	-49374	5	4	367	11	33	33
612748	628029.99	729081.13	-69767	5	4	367	11	34	34
612748	628029.99	729081.13	-53183	5	4	367	11	35	35
612748	628029.99	729081.13	-53183	5	4	367	11	36	36
612749	629343.02	729092.57	-57761	5	4	367	14	29	29
612749	629343.02	729092.57	-30566	5	4	367	14	30	30
612749	629343.02	729092.57	-49016	5	4	367	14	31	31
612749	629343.02	729092.57	-55098	5	4	367	14	32	32
612749	629343.02	729092.57	-49254	5	4	367	14	33	33
612749	629343.02	729092.57	-52355	5	4	367	14	34	34

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
612749	629343.02	729092.57	-48819	5	4	367	14	35	35
612749	629343.02	729092.57	-48819	5	4	367	14	36	36
616515	676929.62	744981.52	-50991	5	4	278	523	29	29
616515	676929.62	744981.52	-44842	5	4	278	523	30	30
616515	676929.62	744981.52	-23494	5	4	278	523	31	31
616515	676929.62	744981.52	-25283	5	4	278	523	32	32
616515	676929.62	744981.52	-21467	5	4	278	523	33	33
616515	676929.62	744981.52	-27549	5	4	278	523	34	34
616515	676929.62	744981.52	-24901	5	4	278	523	35	35
616515	676929.62	744981.52	-24901	5	4	278	523	36	36
616516	680169.1	747645.17	-45869	5	4	131	529	29	29
616516	680169.1	747645.17	-66786	5	4	131	529	30	30
616516	680169.1	747645.17	-37448	5	4	131	529	31	31
616516	680169.1	747645.17	-29576	5	4	131	529	32	32
616516	680169.1	747645.17	-59869	5	4	131	529	33	33
616516	680169.1	747645.17	-29099	5	4	131	529	34	34
616516	680169.1	747645.17	-24901	5	4	131	529	35	35
616516	680169.1	747645.17	-24901	5	4	131	529	36	36
616686	642959.42	723930.74	-5738	3	3	378	43	29	29
616686	642959.42	723930.74	-11177	3	3	378	43	30	30
616686	642959.42	723930.74	-10039	3	3	378	43	31	31
616686	642959.42	723930.74	-9963	3	3	378	43	32	32
616686	642959.42	723930.74	-8946	3	3	378	43	33	33
616686	642959.42	723930.74	-13207	3	3	378	43	34	34
616686	642959.42	723930.74	-1304	3	3	378	43	35	35
616686	642959.42	723930.74	-1304	3	3	378	43	36	36
616687	642959.42	723930.74	-5534	5	4	378	43	29	29
616687	642959.42	723930.74	-361	5	4	378	43	30	30
616687	642959.42	723930.74	0	5	4	378	43	31	31
616687	642959.42	723930.74	0	5	4	378	43	32	32

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
616687	642959.42	723930.74	-5980	5	4	378	43	33	33
616687	642959.42	723930.74	-7002	5	4	378	43	34	34
616687	642959.42	723930.74	-9639	5	4	378	43	35	35
616687	642959.42	723930.74	-9639	5	4	378	43	36	36
616763	628091.89	736551.08	-112	5	4	352	11	29	29
616763	628091.89	736551.08	0	5	4	352	11	30	30
616763	628091.89	736551.08	-9589	5	4	352	11	31	31
616763	628091.89	736551.08	0	5	4	352	11	32	32
616763	628091.89	736551.08	0	5	4	352	11	33	33
616763	628091.89	736551.08	0	5	4	352	11	34	34
616763	628091.89	736551.08	-140	5	4	352	11	35	35
616763	628091.89	736551.08	-140	5	4	352	11	36	36
616764	628091.89	736551.08	-74	5	4	352	11	29	29
616764	628091.89	736551.08	-12	5	4	352	11	30	30
616764	628091.89	736551.08	0	5	4	352	11	31	31
616764	628091.89	736551.08	0	5	4	352	11	32	32
616764	628091.89	736551.08	0	5	4	352	11	33	33
616764	628091.89	736551.08	0	5	4	352	11	34	34
616764	628091.89	736551.08	-218	5	4	352	11	35	35
616764	628091.89	736551.08	-218	5	4	352	11	36	36
616927	634194.01	744162.34	-73073	5	4	294	23	29	29
616927	634194.01	744162.34	-67778	5	4	294	23	30	30
616927	634194.01	744162.34	-49929	5	4	294	23	31	31
616927	634194.01	744162.34	-42447	5	4	294	23	32	32
616927	634194.01	744162.34	-50780	5	4	294	23	33	33
616927	634194.01	744162.34	-61081	5	4	294	23	34	34
616927	634194.01	744162.34	-45033	5	4	294	23	35	35
616927	634194.01	744162.34	-45033	5	4	294	23	36	36
617189	674900.45	756883.73	-45685	5	4	30	519	29	29
617189	674900.45	756883.73	-48211	5	4	30	519	30	30

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
617189	674900.45	756883.73	-30241	5	4	30	519	31	31
617189	674900.45	756883.73	0	5	4	30	519	32	32
617189	674900.45	756883.73	0	5	4	30	519	33	33
617189	674900.45	756883.73	0	5	4	30	519	34	34
617189	674900.45	756883.73	-5605	5	4	30	519	35	35
617189	674900.45	756883.73	-5605	5	4	30	519	36	36
618023	636470.72	745179.88	-4656	5	4	274	28	29	29
618023	636470.72	745179.88	-3635	5	4	274	28	30	30
618023	636470.72	745179.88	-5141	5	4	274	28	31	31
618023	636470.72	745179.88	-5394	5	4	274	28	32	32
618023	636470.72	745179.88	-2811	5	4	274	28	33	33
618023	636470.72	745179.88	-1044	5	4	274	28	34	34
618023	636470.72	745179.88	-883	5	4	274	28	35	35
618023	636470.72	745179.88	-883	5	4	274	28	36	36
618027	677596.15	743671.29	0	5	4	304	524	29	29
618027	677596.15	743671.29	0	5	4	304	524	30	30
618027	677596.15	743671.29	0	5	4	304	524	31	31
618027	677596.15	743671.29	0	5	4	304	524	32	32
618027	677596.15	743671.29	0	5	4	304	524	33	33
618027	677596.15	743671.29	-217	5	4	304	524	34	34
618027	677596.15	743671.29	-50806	5	4	304	524	35	35
618027	677596.15	743671.29	-50806	5	4	304	524	36	36
618508	656680.99	718536.72	-74125	5	4	388	482	29	29
618508	656680.99	718536.72	-45479	5	4	388	482	30	30
618508	656680.99	718536.72	-67024	5	4	388	482	31	31
618508	656680.99	718536.72	-68097	5	4	388	482	32	32
618508	656680.99	718536.72	0	5	4	388	482	33	33
618508	656680.99	718536.72	-68097	5	4	388	482	34	34
618508	656680.99	718536.72	-66800	5	4	388	482	35	35
618508	656680.99	718536.72	-66800	5	4	388	482	36	36

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
618509	656680.99	718536.72	-51442	5	4	388	482	29	29
618509	656680.99	718536.72	-41840	5	4	388	482	30	30
618509	656680.99	718536.72	-42218	5	4	388	482	31	31
618509	656680.99	718536.72	-52832	5	4	388	482	32	32
618509	656680.99	718536.72	0	5	4	388	482	33	33
618509	656680.99	718536.72	-58557	5	4	388	482	34	34
618509	656680.99	718536.72	-53797	5	4	388	482	35	35
618509	656680.99	718536.72	-53797	5	4	388	482	36	36
619401	654989.72	770602.04	-16422	5	4	2	476	29	29
619401	654989.72	770602.04	-14502	5	4	2	476	30	30
619401	654989.72	770602.04	-15430	5	4	2	476	31	31
619401	654989.72	770602.04	-16207	5	4	2	476	32	32
619401	654989.72	770602.04	-15697	5	4	2	476	33	33
619401	654989.72	770602.04	-15964	5	4	2	476	34	34
619401	654989.72	770602.04	-10483	5	4	2	476	35	35
619401	654989.72	770602.04	-10483	5	4	2	476	36	36
619533	663791.88	740945.04	-1259	5	4	341	497	29	29
619533	663791.88	740945.04	-2383	5	4	341	497	30	30
619533	663791.88	740945.04	-1013	5	4	341	497	31	31
619533	663791.88	740945.04	-477	5	4	341	497	32	32
619533	663791.88	740945.04	-19006	5	4	341	497	33	33
619533	663791.88	740945.04	-54979	5	4	341	497	34	34
619533	663791.88	740945.04	-7990	5	4	341	497	35	35
619533	663791.88	740945.04	-7990	5	4	341	497	36	36
619534	661849.47	737642.93	-126806	5	4	350	493	29	29
619534	661849.47	737642.93	-103257	5	4	350	493	30	30
619534	661849.47	737642.93	-60594	5	4	350	493	31	31
619534	661849.47	737642.93	-59511	5	4	350	493	32	32
619534	661849.47	737642.93	-99061	5	4	350	493	33	33
619534	661849.47	737642.93	-76224	5	4	350	493	34	34

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
619534	661849.47	737642.93	-150625	5	4	350	493	35	35
619534	661849.47	737642.93	-150625	5	4	350	493	36	36
621536	631594.46	742154.16	-67963	5	4	331	18	29	29
621536	631594.46	742154.16	-51938	5	4	331	18	30	30
621536	631594.46	742154.16	0	5	4	331	18	31	31
621536	631594.46	742154.16	0	5	4	331	18	32	32
621536	631594.46	742154.16	0	5	4	331	18	33	33
621536	631594.46	742154.16	0	5	4	331	18	34	34
621536	631594.46	742154.16	0	5	4	331	18	35	35
621536	631594.46	742154.16	0	5	4	331	18	36	36
621537	630285.55	741483.09	-2442	5	4	338	16	29	29
621537	630285.55	741483.09	-40374	5	4	338	16	30	30
621537	630285.55	741483.09	-21692	5	4	338	16	31	31
621537	630285.55	741483.09	-21925	5	4	338	16	32	32
621537	630285.55	741483.09	-23970	5	4	338	16	33	33
621537	630285.55	741483.09	-25235	5	4	338	16	34	34
621537	630285.55	741483.09	-26237	5	4	338	16	35	35
621537	630285.55	741483.09	-26237	5	4	338	16	36	36
621538	630286.44	740176.94	-107600	5	4	344	16	29	29
621538	630286.44	740176.94	-87400	5	4	344	16	30	30
621538	630286.44	740176.94	-28503	5	4	344	16	31	31
621538	630286.44	740176.94	-33989	5	4	344	16	32	32
621538	630286.44	740176.94	-57562	5	4	344	16	33	33
621538	630286.44	740176.94	-25402	5	4	344	16	34	34
621538	630286.44	740176.94	-26428	5	4	344	16	35	35
621538	630286.44	740176.94	-26428	5	4	344	16	36	36
622483	633420.84	731395.85	-799	5	4	363	22	29	29
622483	633420.84	731395.85	-799	5	4	363	22	30	30
622483	633420.84	731395.85	0	5	4	363	22	31	31
622483	633420.84	731395.85	-799	5	4	363	22	32	32

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
622483	633420.84	731395.85	-799	5	4	363	22	33	33
622483	633420.84	731395.85	-799	5	4	363	22	34	34
622483	633420.84	731395.85	0	5	4	363	22	35	35
622483	633420.84	731395.85	0	5	4	363	22	36	36
623918	659160.68	746838.29	-27346	5	4	170	487	29	29
623918	659160.68	746838.29	-22063	5	4	170	487	30	30
623918	659160.68	746838.29	-26356	5	4	170	487	31	31
623918	659160.68	746838.29	-24568	5	4	170	487	32	32
623918	659160.68	746838.29	-10972	5	4	170	487	33	33
623918	659160.68	746838.29	-15146	5	4	170	487	34	34
623918	659160.68	746838.29	-9064	5	4	170	487	35	35
623918	659160.68	746838.29	-9064	5	4	170	487	36	36
624355	648736.5	734355.02	-63266	5	4	357	237	29	29
624355	648736.5	734355.02	-71109	5	4	357	237	30	30
624355	648736.5	734355.02	-67501	5	4	357	237	31	31
624355	648736.5	734355.02	-52832	5	4	357	237	32	32
624355	648736.5	734355.02	-49493	5	4	357	237	33	33
624355	648736.5	734355.02	-66666	5	4	357	237	34	34
624355	648736.5	734355.02	-51052	5	4	357	237	35	35
624355	648736.5	734355.02	-51052	5	4	357	237	36	36
624356	648723.26	735008	-63761	3	3	355	236	29	29
624356	648723.26	735008	-50875	3	3	355	236	30	30
624356	648723.26	735008	-61419	3	3	355	236	31	31
624356	648723.26	735008	-44365	3	3	355	236	32	32
624356	648723.26	735008	-30173	3	3	355	236	33	33
624356	648723.26	735008	-29338	3	3	355	236	34	34
624356	648723.26	735008	-42177	3	3	355	236	35	35
624356	648723.26	735008	-42177	3	3	355	236	36	36
624357	644835.63	735692.83	-55377	5	4	354	59	29	29
624357	644835.63	735692.83	-50162	5	4	354	59	30	30

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
624357	644835.63	735692.83	-59749	5	4	354	59	31	31
624357	644835.63	735692.83	-47108	5	4	354	59	32	32
624357	644835.63	735692.83	-58914	5	4	354	59	33	33
624357	644835.63	735692.83	-62254	5	4	354	59	34	34
624357	644835.63	735692.83	-59295	5	4	354	59	35	35
624357	644835.63	735692.83	-59295	5	4	354	59	36	36
624358	642234.37	734367.26	-40274	2	2	357	40	29	29
624358	642234.37	734367.26	-45618	2	2	357	40	30	30
624358	642234.37	734367.26	-42099	2	2	357	40	31	31
624358	642234.37	734367.26	-46988	2	2	357	40	32	32
624358	642234.37	734367.26	-58199	2	2	357	40	33	33
624358	642234.37	734367.26	-60465	2	2	357	40	34	34
624358	642234.37	734367.26	-62504	2	2	357	40	35	35
624358	642234.37	734367.26	-62504	2	2	357	40	36	36
624359	651318.54	733632.55	-106784	5	4	358	424	29	29
624359	651318.54	733632.55	-88879	5	4	358	424	30	30
624359	651318.54	733632.55	-110196	5	4	358	424	31	31
624359	651318.54	733632.55	-105903	5	4	358	424	32	32
624359	651318.54	733632.55	-94931	5	4	358	424	33	33
624359	651318.54	733632.55	-117352	5	4	358	424	34	34
624359	651318.54	733632.55	-99829	5	4	358	424	35	35
624359	651318.54	733632.55	-99829	5	4	358	424	36	36
624360	646228.62	733122.16	-72527	5	4	359	87	29	29
624360	646228.62	733122.16	-52358	5	4	359	87	30	30
624360	646228.62	733122.16	-63327	5	4	359	87	31	31
624360	646228.62	733122.16	-42457	5	4	359	87	32	32
624360	646228.62	733122.16	-52474	5	4	359	87	33	33
624360	646228.62	733122.16	-58199	5	4	359	87	34	34
624360	646228.62	733122.16	-59672	5	4	359	87	35	35
624360	646228.62	733122.16	-59672	5	4	359	87	36	36

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
627605	640693.73	755439.67	-73786	5	4	33	36	29	29
627605	640693.73	755439.67	-73562	5	4	33	36	30	30
627605	640693.73	755439.67	-74628	5	4	33	36	31	31
627605	640693.73	755439.67	-70999	5	4	33	36	32	32
627605	640693.73	755439.67	-63962	5	4	33	36	33	33
627605	640693.73	755439.67	-71643	5	4	33	36	34	34
627605	640693.73	755439.67	-71643	5	4	33	36	35	35
627605	640693.73	755439.67	-71643	5	4	33	36	36	36
627608	647947.51	745529.43	-88593	8	4	267	174	29	29
627608	647947.51	745529.43	-81320	8	4	267	174	30	30
627608	647947.51	745529.43	-72103	8	4	267	174	31	31
627608	647947.51	745529.43	-78382	8	4	267	174	32	32
627608	647947.51	745529.43	-53777	8	4	267	174	33	33
627608	647947.51	745529.43	-69170	8	4	267	174	34	34
627608	647947.51	745529.43	-36331	8	4	267	174	35	35
627608	647947.51	745529.43	-36331	8	4	267	174	36	36
627609	651233.01	743552.88	0	8	4	306	422	29	29
627609	651233.01	743552.88	0	8	4	306	422	30	30
627609	651233.01	743552.88	0	8	4	306	422	31	31
627609	651233.01	743552.88	0	8	4	306	422	32	32
627609	651233.01	743552.88	0	8	4	306	422	33	33
627609	651233.01	743552.88	0	8	4	306	422	34	34
627609	651233.01	743552.88	-10051	8	4	306	422	35	35
627609	651233.01	743552.88	-10051	8	4	306	422	36	36
627610	644675.74	745520.58	-81649	5	4	267	57	29	29
627610	644675.74	745520.58	-73340	5	4	267	57	30	30
627610	644675.74	745520.58	-63143	5	4	267	57	31	31
627610	644675.74	745520.58	-76256	5	4	267	57	32	32
627610	644675.74	745520.58	-59818	5	4	267	57	33	33
627610	644675.74	745520.58	-57595	5	4	267	57	34	34

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
627610	644675.74	745520.58	-52739	5	4	267	57	35	35
627610	644675.74	745520.58	-52739	5	4	267	57	36	36
627611	656502.31	744872.22	-97476	8	4	280	482	29	29
627611	656502.31	744872.22	-81103	8	4	280	482	30	30
627611	656502.31	744872.22	-57934	8	4	280	482	31	31
627611	656502.31	744872.22	-58072	8	4	280	482	32	32
627611	656502.31	744872.22	-33631	8	4	280	482	33	33
627611	656502.31	744872.22	-45913	8	4	280	482	34	34
627611	656502.31	744872.22	-35394	8	4	280	482	35	35
627611	656502.31	744872.22	-35394	8	4	280	482	36	36
627613	654884.22	749163.92	-119	6	4	100	476	29	29
627613	654884.22	749163.92	-119	6	4	100	476	30	30
627613	654884.22	749163.92	-1	6	4	100	476	31	31
627613	654884.22	749163.92	-105	6	4	100	476	32	32
627613	654884.22	749163.92	-21	6	4	100	476	33	33
627613	654884.22	749163.92	-37	6	4	100	476	34	34
627613	654884.22	749163.92	-225	6	4	100	476	35	35
627613	654884.22	749163.92	-225	6	4	100	476	36	36
627614	653870.38	746194.82	-107	7	4	222	469	29	29
627614	653870.38	746194.82	-129	7	4	222	469	30	30
627614	653870.38	746194.82	-186	7	4	222	469	31	31
627614	653870.38	746194.82	0	7	4	222	469	32	32
627614	653870.38	746194.82	-38	7	4	222	469	33	33
627614	653870.38	746194.82	-104	7	4	222	469	34	34
627614	653870.38	746194.82	-372	7	4	222	469	35	35
627614	653870.38	746194.82	-372	7	4	222	469	36	36
627615	641329.75	758073.98	-1840	5	4	27	38	29	29
627615	641329.75	758073.98	-1351	5	4	27	38	30	30
627615	641329.75	758073.98	-5077	5	4	27	38	31	31
627615	641329.75	758073.98	-3797	5	4	27	38	32	32

APPLICATION TO AMEND AQUIFER PROTECTION PERMIT NO. 101704  
ATTACHMENT 14 - TECHNICAL REQUIREMENTS - HYDROGEOLOGIC STUDY (ITEM 19H)

Name	X	Y	Q - Pumping Rate (cubic feet per day)	Bottom Layer	Top Layer	Row	Column	Start Stress Period	End Stress Period
627615	641329.75	758073.98	-10626	5	4	27	38	33	33
627615	641329.75	758073.98	-6769	5	4	27	38	34	34
627615	641329.75	758073.98	-19512	5	4	27	38	35	35
627615	641329.75	758073.98	-19512	5	4	27	38	36	36
627617	640735.42	745512.45	-70834	5	4	267	36	29	29
627617	640735.42	745512.45	-73705	5	4	267	36	30	30
627617	640735.42	745512.45	-51790	5	4	267	36	31	31
627617	640735.42	745512.45	-75235	5	4	267	36	32	32
627617	640735.42	745512.45	-43504	5	4	267	36	33	33
627617	640735.42	745512.45	-41504	5	4	267	36	34	34
627617	640735.42	745512.45	-39302	5	4	267	36	35	35
627617	640735.42	745512.45	-39302	5	4	267	36	36	36